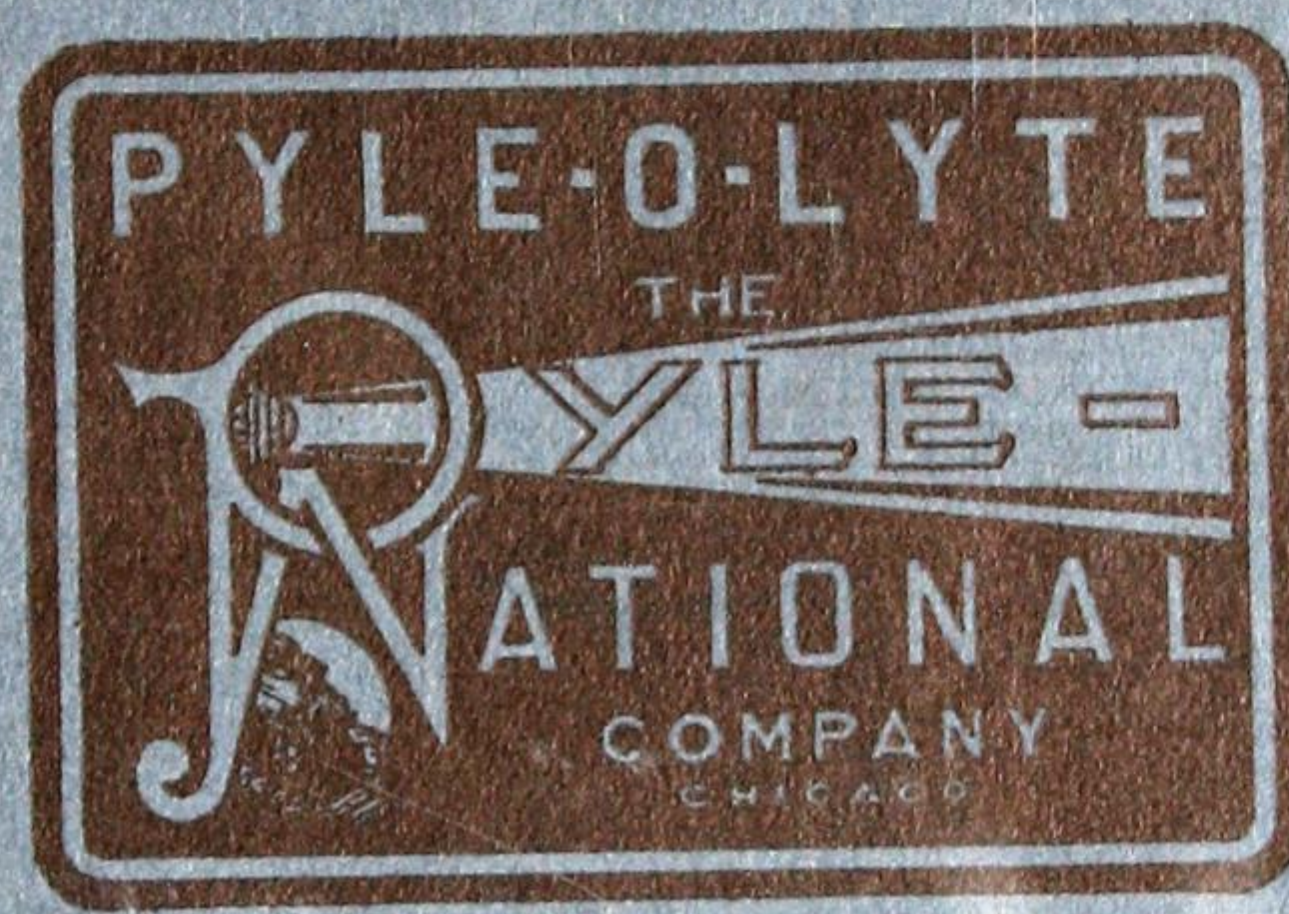


29-5

Pyle-O-Lytes

for FLOODLIGHTING



CATALOGUE No. 4

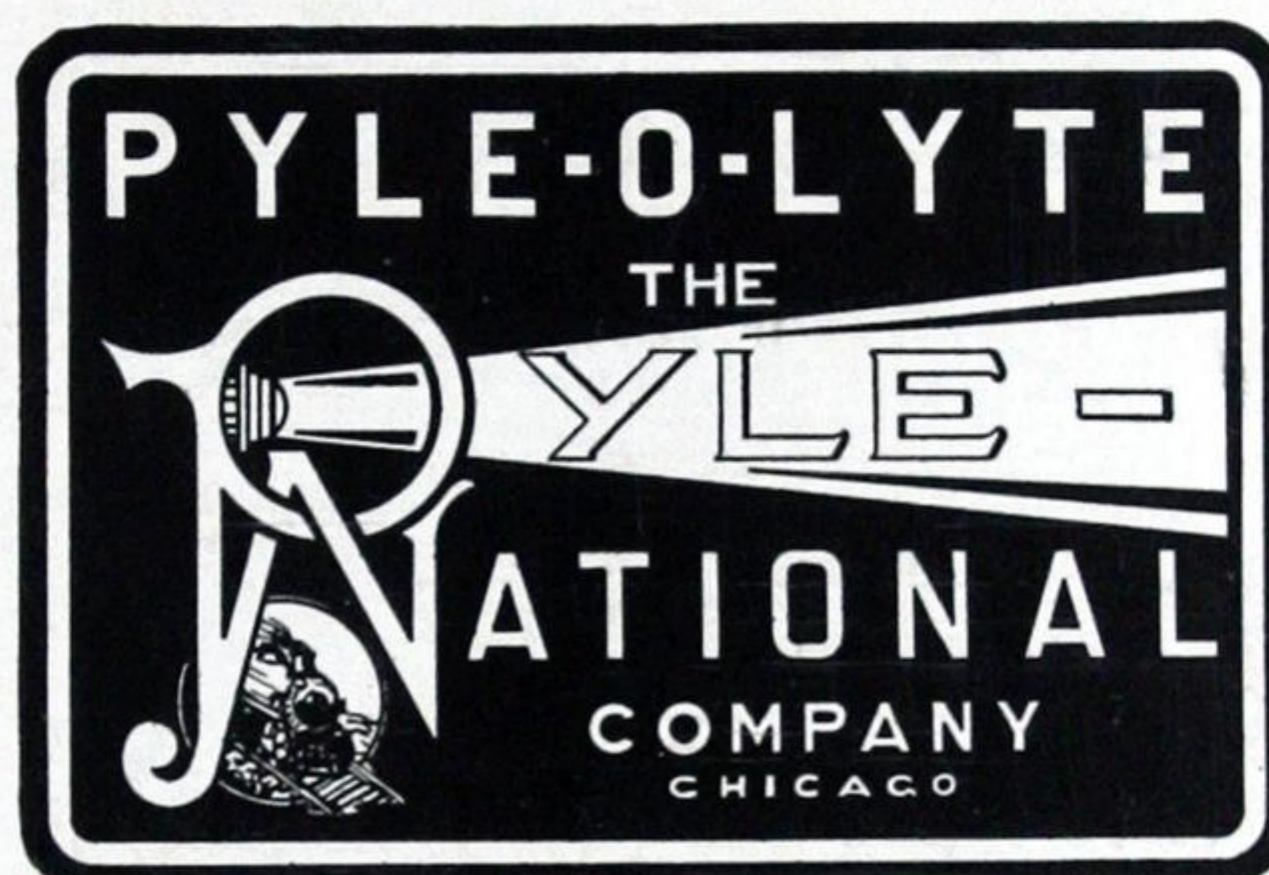
THE PYLE-NATIONAL CO.
CHICAGO

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CCA

Pyle-O-Lytes *for* FLOODLIGHTING



TRADE MARK REGISTERED

For your ready recognition
this mark, in colors, is placed on all
Pyle-O-Lytes

The PYLE-NATIONAL COMPANY

The Pioneers and Largest Manufacturers of Locomotive Electric Headlight Sets

General Offices and Works:
1334-1358 North Kostner Avenue
CHICAGO, ILLINOIS, U. S. A.

Export Department: INTERNATIONAL RAILWAY SUPPLY COMPANY
30 Church Street, New York, N. Y.

Canadian Representative: THE HOLDEN COMPANY, LIMITED
Montreal ∨ Winnipeg ∨ Vancouver ∨ Toronto

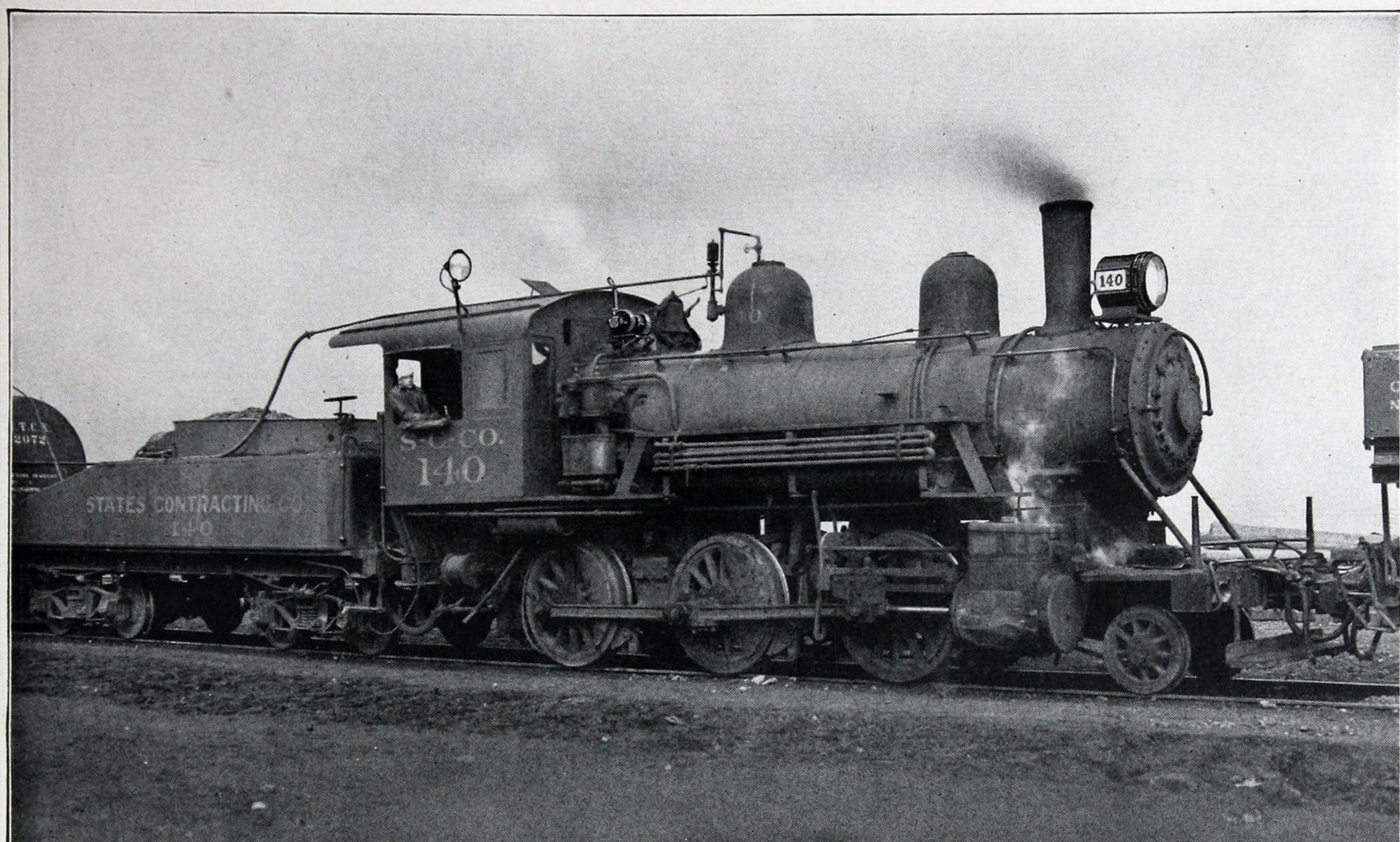


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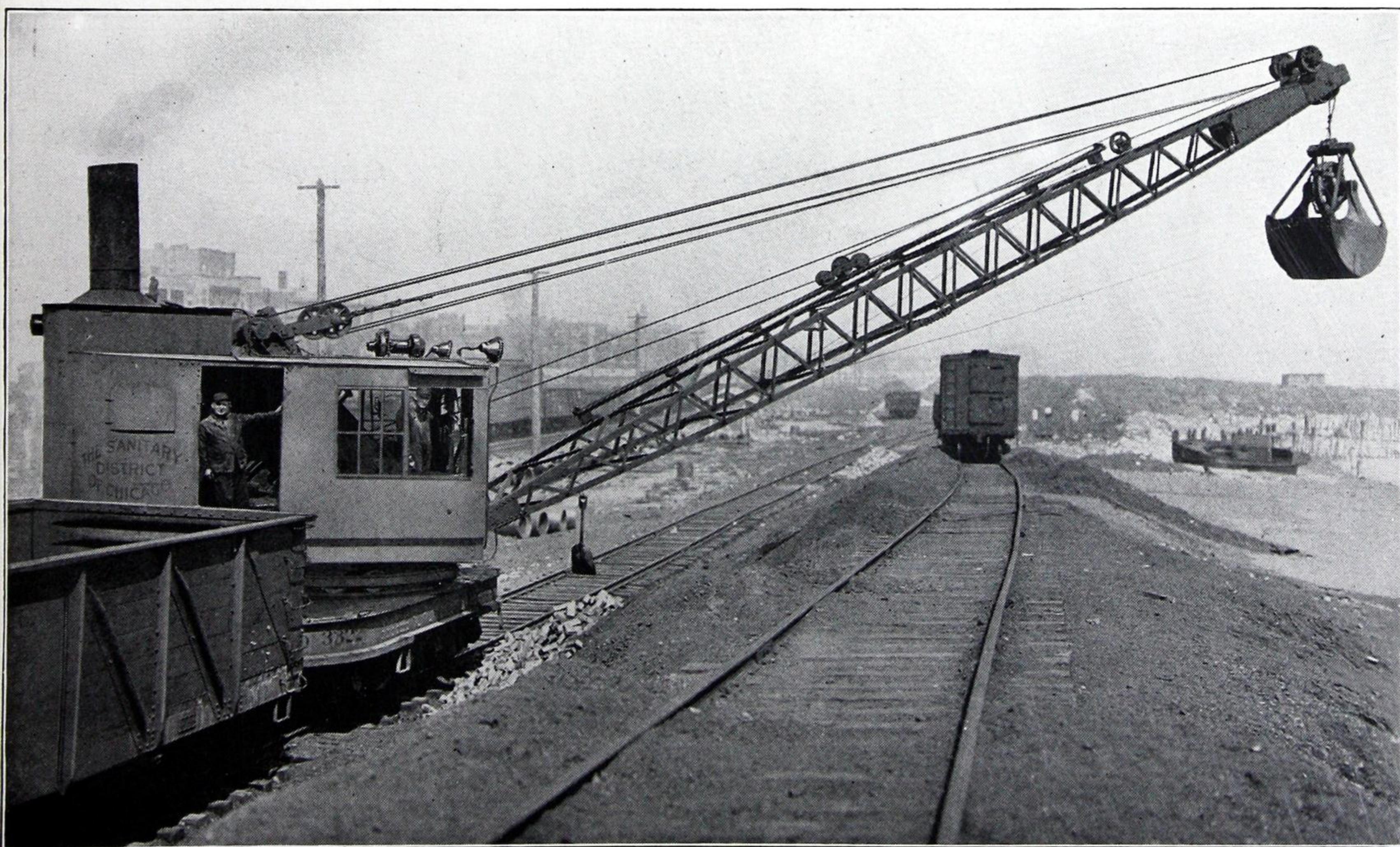
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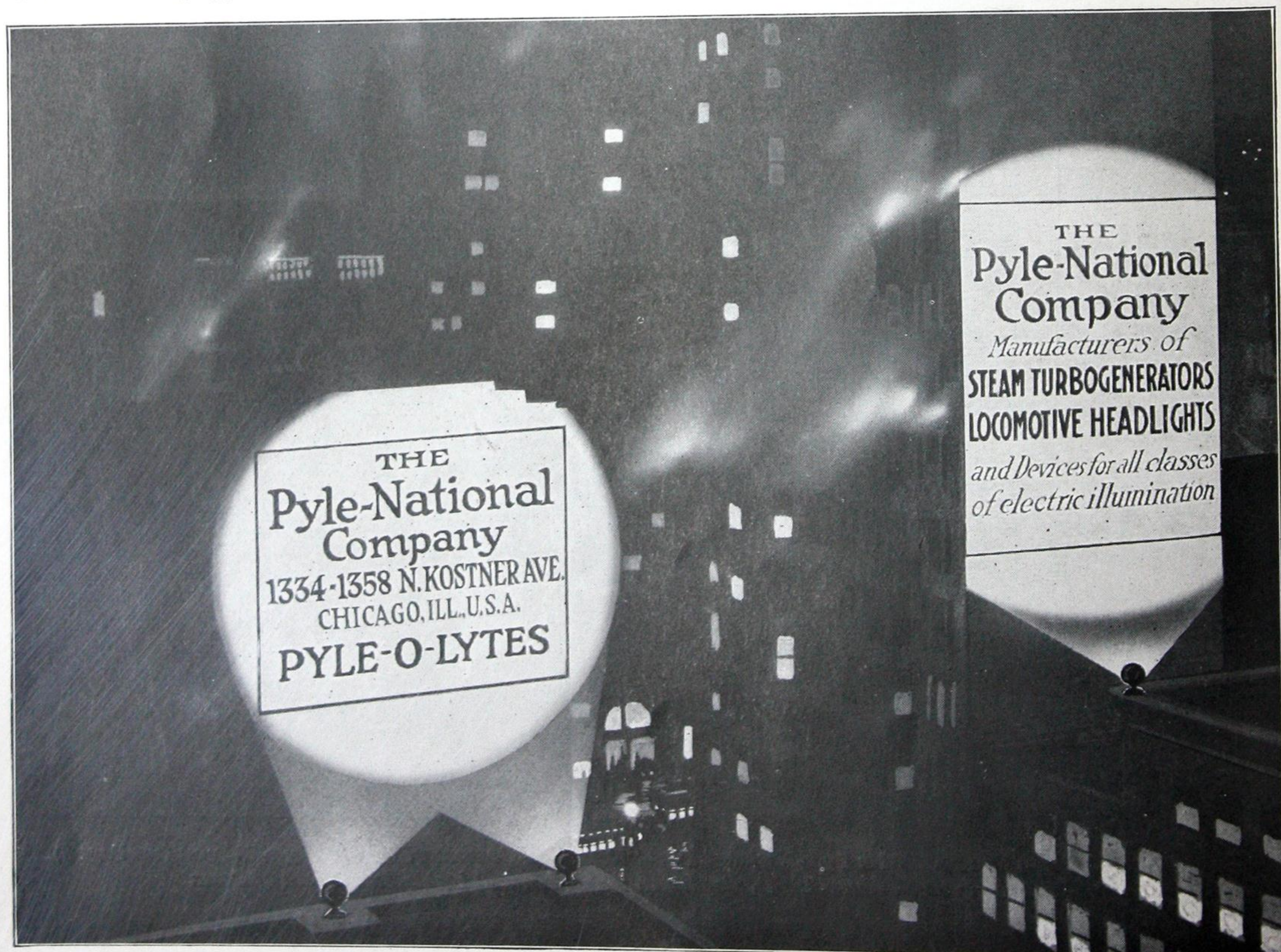
An Example of Locomotive Electric Lighting in which Pyle-National Headlights, "K-2" Turbo-Generator and 1045-ACC Pyle-O-Lytes (see Page 9) are used



A Locomotive Crane Equipped with Pyle-National Type "E" Turbo-Generator, 1045-AC Pyle-O-Lytes (see Page 8), 1095 Backup and Ground Light, also Boomlights Mounted Inside Framework of Boom



Steam Shovel Equipped with Pyle-National Type "E" Turbo-Generator (page 24) and 1260-AG Pyle-O-Lytes (page 12)



Sign and Building Illumination with Pyle-O-Lytes.



Yard Illuminated by Two 1260-AC Pyle-O-Lytes

INTRODUCTION

THE possibilities of floodlighting, in the field of illuminating engineering have long been recognized but never have they been fully realized and put into the widest practice, due as much to lack of efficient projectors as to the natural lag in discarding older methods of lighting. But just as incandescent lamps have largely replaced arcs for open area illumination, so will permanent projector units eventually be used to direct, control and distribute the incandescent light according to requirements, thus attaining the maximum in uniformly effective illumination with a minimum installation cost and current consumption.

PYLE-O-LYTES are being produced to meet the need for permanently efficient projectors, capable in their various types and capacities of filling every present requirement and limited in their future uses only by the vision and resourcefulness of those who have illumination problems to solve. Submit your data to us and allow our engineering department to co-operate with you in the solution of any such problems.

The essential elements of a floodlight projector, as incorporated in Pyle-O-Lytes, are:

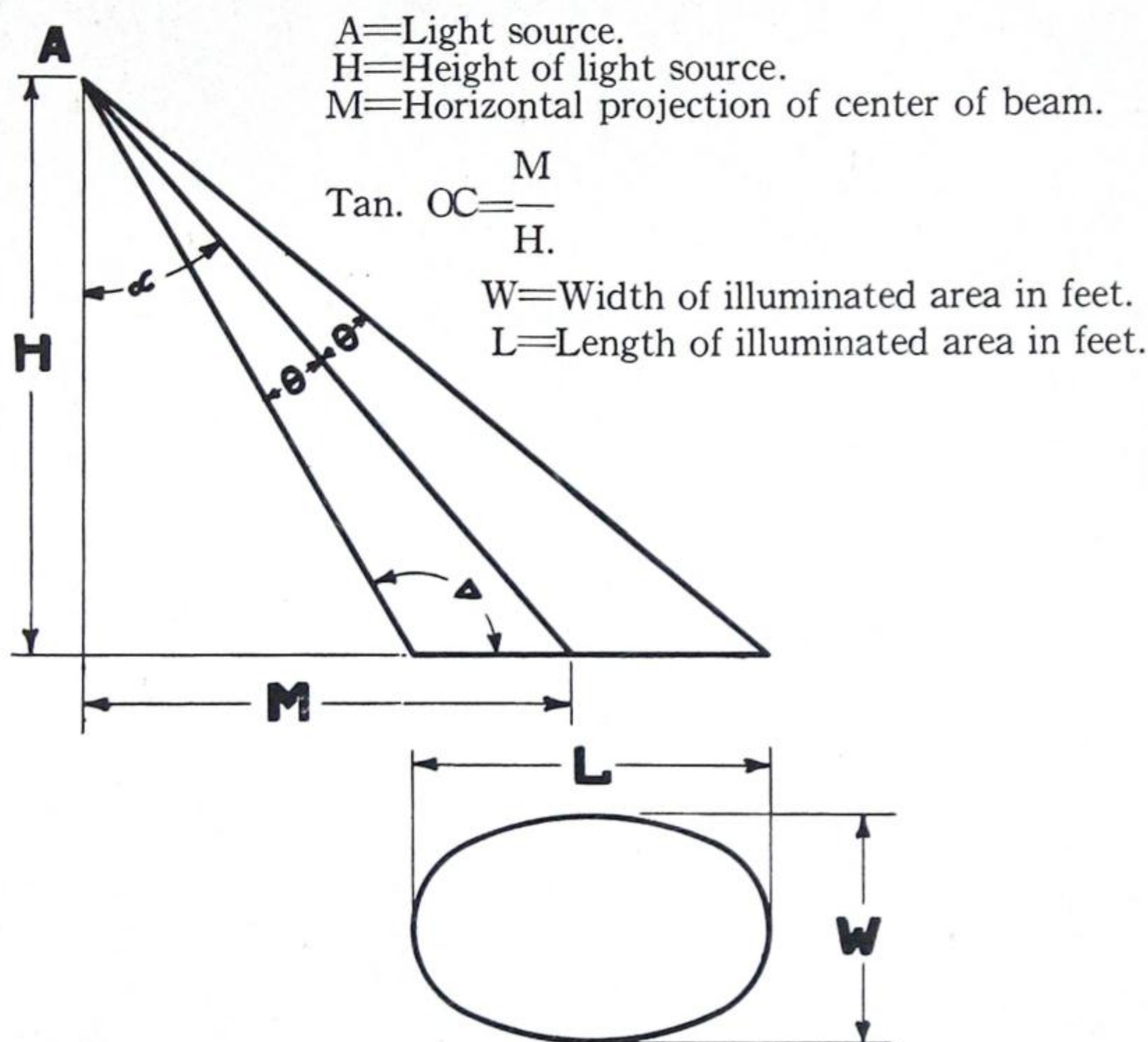
1. A source of light (the incandescent lamp). (Note Page 4.)
 2. A reflector, to collect and direct the light rays. (Note Page 5.)
 3. Front lenses to further control the distribution of the rays. (Note Page 6.)
 4. Ventilating arrangements which will positively protect the reflector and lamp from over-heating. (Note Page 7.)
 5. A focusing device of simple but effective design. (Note Page 7.)
 6. A housing to give support and alignment to the other elements and, what is most important, to thoroughly protect them against weather and rough usage. (Note Page 7, also individual specifications.)
 7. A bracket and base for mounting and adjusting projectors. (Note specifications.)
-

FLOODLIGHTING CALCULATIONS

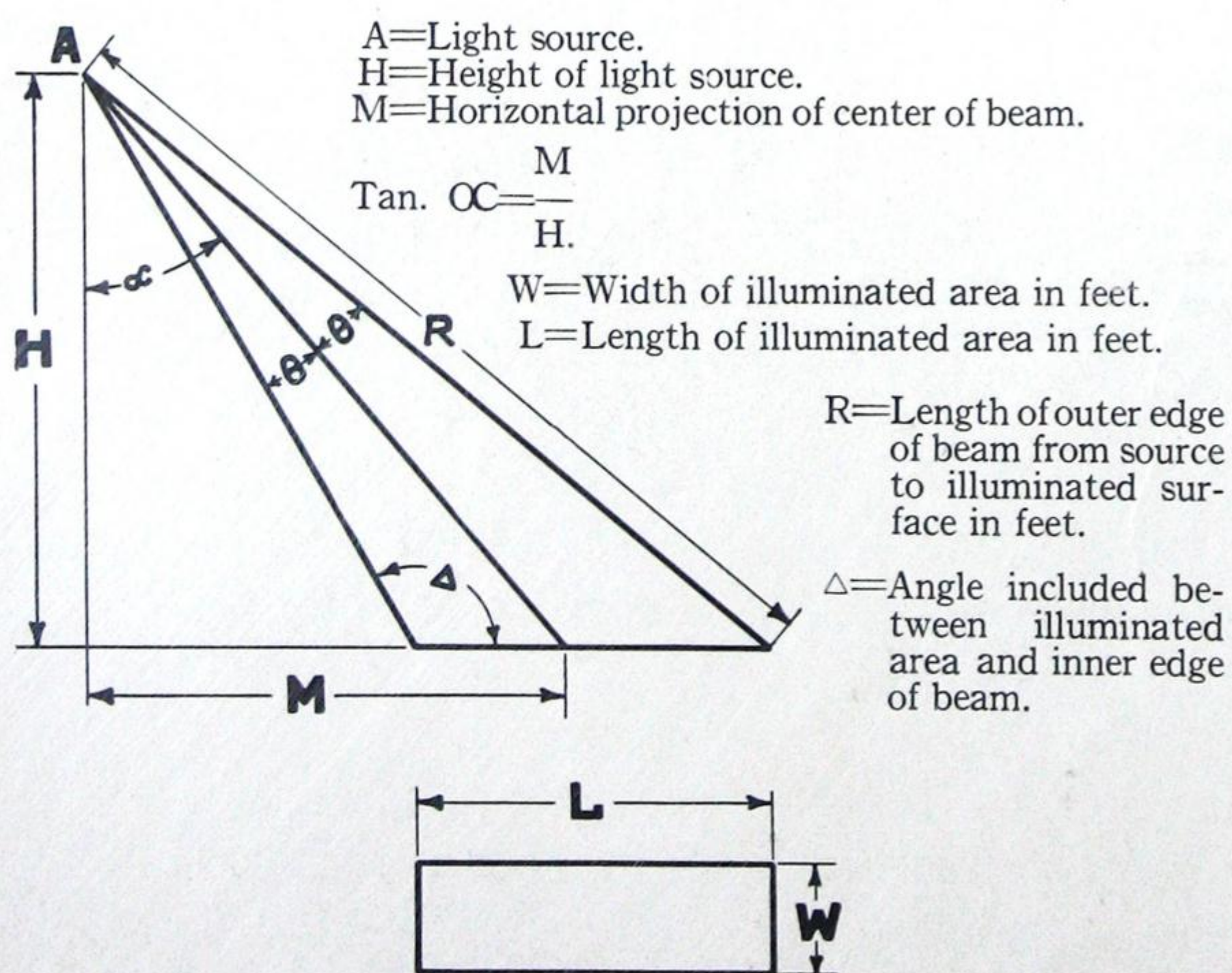
WHEN used in conjunction with the capacity data on the opposite page these charts and formulas are intended to enable the Pyle-O-Lyte user to determine the type, size and number of projectors necessary to fill the requirements of any illumination problem in which floodlights are to be used. Many of these jobs are of a simple nature and a glance at the capacity charts on page 3 will be sufficient to suggest the type and number of projectors to order. There are other more difficult problems, however, in which it is necessary to compute the area which a certain projector can cover from a given location or the location and projector necessary to light a given area with a predetermined intensity. It is to aid in the answering of such questions that the formulas are given but we also offer and urge you to make use of the technical as well as practical experience of our engineering staff.

It will be noted that formulas applying to rectangular as well as circular beam projection have been given.

Area Illumination Through Plain Glass or Circular Dispersion Lens



Area Illumination Through Rectangular Dispersion Lens



FORMULAS FOR CALCULATIONS

$$L = H [\tan. (OC + \theta) - \tan. (OC - \theta)].$$

Where OC=angle projected beam makes with perpendicular.

$$\theta = \frac{1}{2} \text{ divergence angle.}$$

$$W = L \sqrt{1 - e^2}.$$

Where e=eccentricity of ellipse.

$$e = \frac{\sin. OC}{\cos. \theta}.$$

$$\text{Area} = .785 L W.$$

SAMPLE CALCULATIONS

$$L = 40 \text{ ft. } OC = 40^\circ. \theta = 10^\circ.$$

$$L = H [\tan. (40^\circ + 10^\circ) - \tan. (40^\circ - 10^\circ)].$$

$$= 40 [\tan. 50^\circ - \tan. 30^\circ].$$

$$= 40 [1.1918 - .5774].$$

$$= 24.6 \text{ ft.}$$

$$W = 24.6 \sqrt{1 - e^2}.$$

$$e = \frac{\sin. 40^\circ .6428}{\cos. 10^\circ .9848} = .653.$$

$$W = 24.6 \sqrt{1 - .653^2}.$$

$$= 18.6 \text{ ft.}$$

$$\text{Area} = .785 L W.$$

$$= .785 \times 24.6 \times 18.6.$$

$$= 359 \text{ Sq. Ft.}$$

FORMULAS FOR CALCULATIONS

$$R = \frac{H}{\cos. (OC + \theta)}.$$

$$L = \frac{R \sin. 2\theta}{\sin. \Delta} = H [\tan. (OC + \theta) - \tan. (OC - \theta)].$$

$$\Delta = (90^\circ + OC - \theta).$$

$$L = \frac{H \sin. 2\theta}{\cos. (OC + \theta) \sin. (90^\circ + OC - \theta)}.$$

$$W = \frac{1}{4} L.$$

$$\text{Area} = L W = \frac{L^2}{4}.$$

SAMPLE CALCULATIONS

$$H = 40 \text{ ft. } OC = 40^\circ. \theta = 10^\circ.$$

$$L = \frac{40 \sin. (2 \times 10^\circ)}{\cos. (40^\circ + 10^\circ) \times \sin. (90^\circ + 40^\circ - 10^\circ)}.$$

$$= \frac{40 \sin. 20^\circ}{\cos. 50^\circ \times \sin. 120^\circ}.$$

$$= \frac{40 \times .3420}{.6428 \times .866}.$$

$$= 24.5 \text{ ft.}$$

$$W = \frac{1}{4} L.$$

$$= \frac{24.5}{4}$$

$$= 6.37 \text{ ft.}$$

$$\text{Area} = 24.5 \times 6.37 = 156 \text{ Sq. Ft.}$$

CAPACITY DATA

THE charts on this page show the capacity of the various reflectors and lenses only as regards light distribution. Intensity has not been considered since the variable conditions governing that factor make it a subject for individual study. Our engineering service is offered to Pyle-O-Lyte users gratis.

Considering the projector to be located at the apex of the triangle, at the right side of each chart, the figures as to beam diameter and area are taken at a distance of 100 feet. The illuminated surface is considered to be at right angles to the axis of projection. When the beam strikes the surface to be lighted obliquely, which is nearly always the case, the formula, on Page 2 will assist in figuring the area that will be covered. However, since problems of illumination are often special in one way or another, our engineering staff is at your service to assist in determining the type, size, number and capacity of projectors necessary for any given conditions.

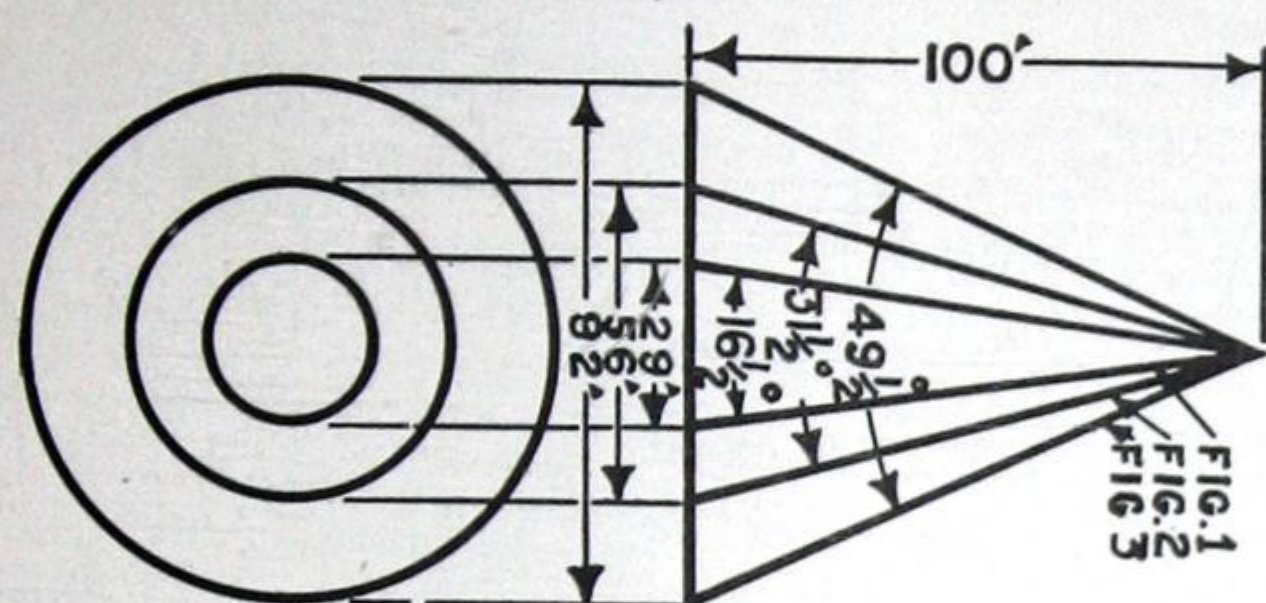


Chart No. 1
1045 SERIES
(Pages 8 to 11)

Fig. 1

Lamp.....	In focus
Front Glass.....	Plain Wire Glass
Diameter of Beam.....	29 feet
Area of Beam.....	661 square feet
Divergence of Beam.....	16 1/2 degrees

Fig. 2

Lamp.....	About 1/4-inch out of focus
Front Glass.....	Plain Wire Glass
Diameter of Beam.....	56 feet
Area of Beam.....	2,463 square feet
Divergence of Beam.....	31 1/2 degrees

Fig. 3

Lamp.....	About 1/4-inch out of focus
Front Glass.....	Circular Dispersion Lens
Diameter of Beam.....	92 feet
Area of Beam.....	6,648 square feet
Divergence of Beam.....	49 1/2 degrees

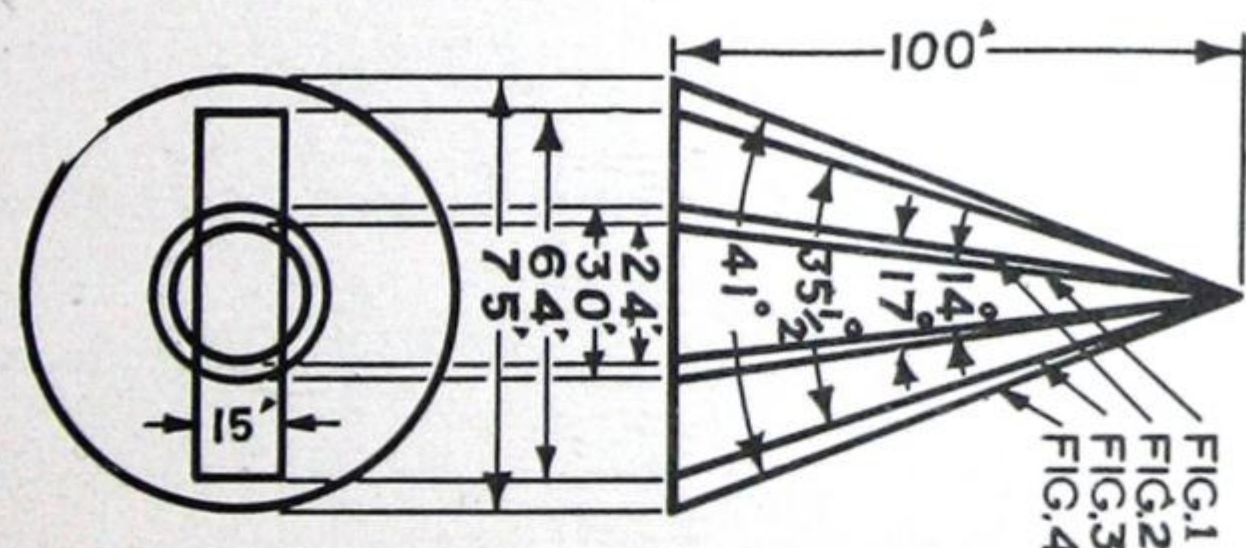


Chart No. 3
1445 SERIES
(Pages 16 to 19)

Fig. 1

Lamp.....	In focus
Front Glass.....	Plain Wire Glass
Diameter of Beam.....	24 feet
Area of Beam.....	453 square feet
Divergence of Beam.....	14 degrees

Fig. 2

Lamp.....	About 3/8-inch out of focus
Front Glass.....	Plain Wire Glass
Diameter of Beam.....	30 feet
Area of Beam.....	707 square feet
Divergence of Beam.....	17 degrees

Fig. 3

Lamp.....	In focus
Front Glass.....	Rectangular Dispersion Lens
Dimensions of Beam.....	15 by 64 feet
Area of Beam.....	960 square feet
Divergence of Beam.....	35 1/2 degrees

Fig. 4

Lamp.....	About 3/8-inch out of focus
Front Glass.....	Circular Dispersion Lens
Diameter of Beam.....	75 feet
Area of Beam.....	4,418 square feet
Divergence of Beam.....	41 degrees

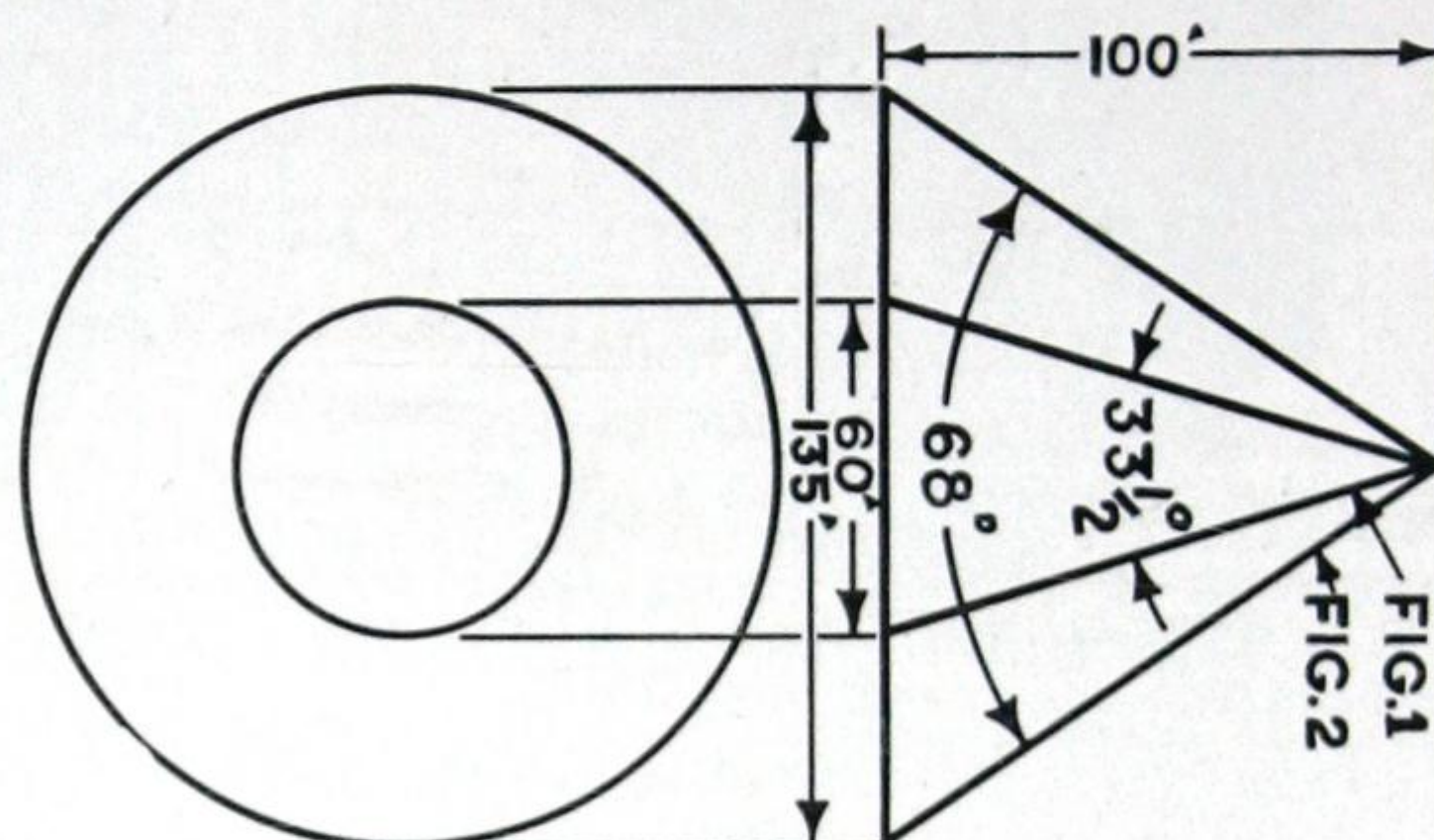


Chart No. 2
1260 SERIES
(Pages 12 to 15)

Fig. 1

Lamp.....	In focus
Front Glass.....	Plain Wire Glass
Diameter of Beam.....	60 feet
Area of Beam.....	2,828 square feet
Divergence of Beam.....	33 1/2 degrees

Fig. 2

Lamp.....	In focus
Front Glass.....	Circular Dispersion Lens
Diameter of Beam.....	135 feet
Area of Beam.....	14,314 square feet
Divergence of Beam.....	68 degrees

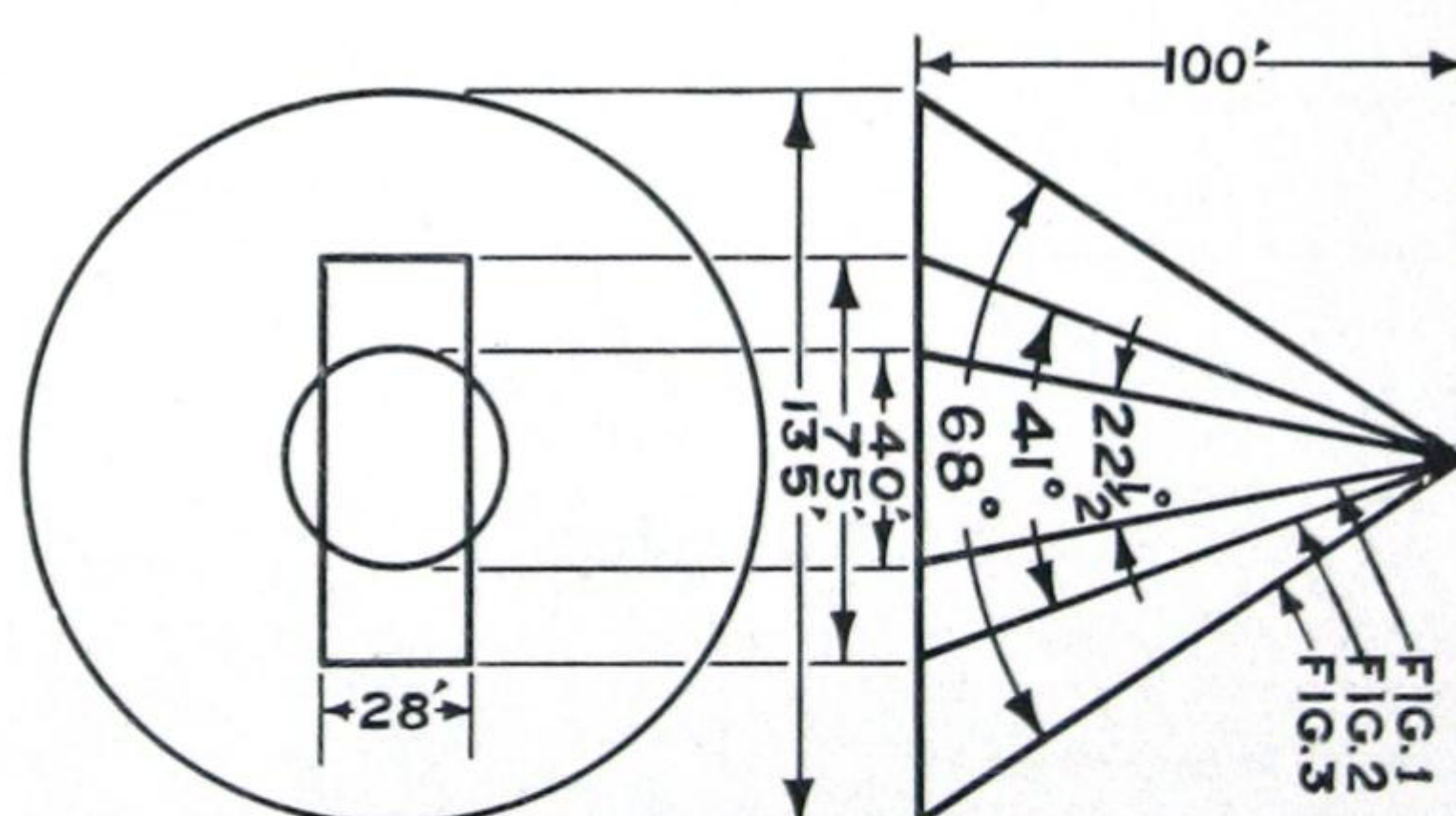


Chart No. 4
1460 SERIES
(Pages 20 to 22)

Fig. 1

Lamp.....	In focus
Front Glass.....	Plain Wire Glass
Diameter of Beam.....	40 feet
Area of Beam.....	1,257 square feet
Divergence of Beam.....	22 1/2 degrees

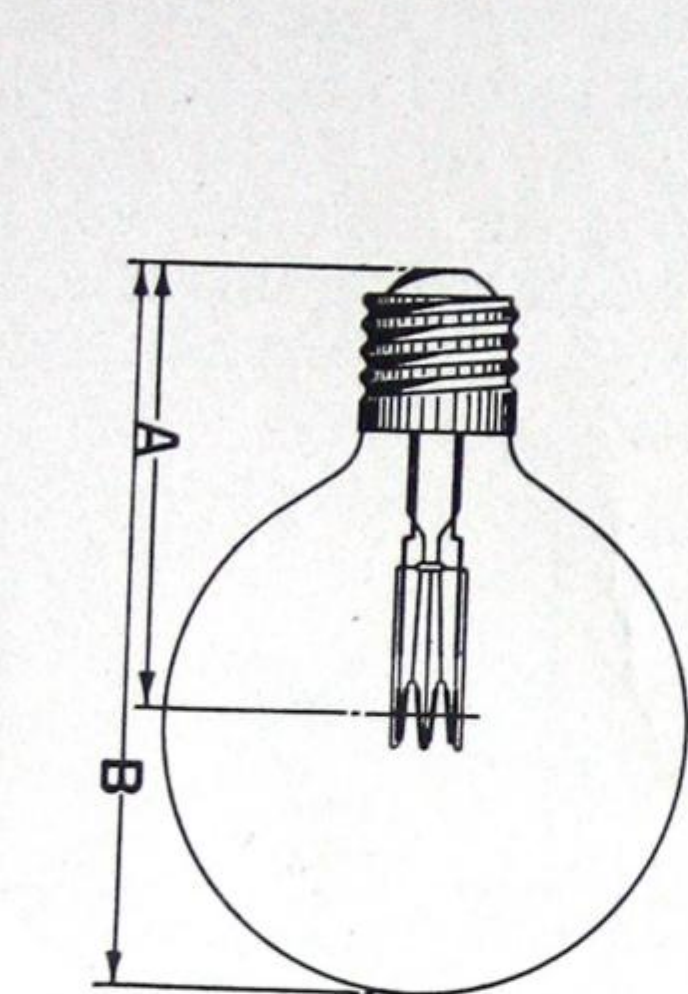
Fig. 2

Lamp.....	In focus
Front Glass.....	Rectangular Dispersion Lens
Dimensions of Beam.....	28 by 75 feet
Area of Beam.....	2,100 square feet
Divergence of Beam.....	41 degrees

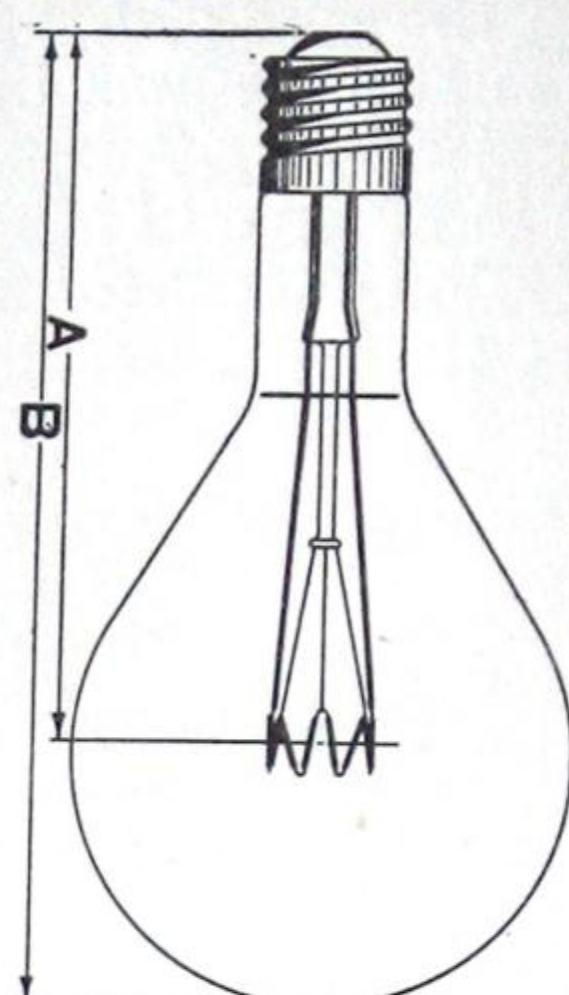
Fig. 3

Lamp.....	In focus
Front Glass.....	Circular Dispersion Lens
Diameter of Beam.....	135 feet
Area of Beam.....	14,314 square feet
Divergence of Beam.....	68 degrees

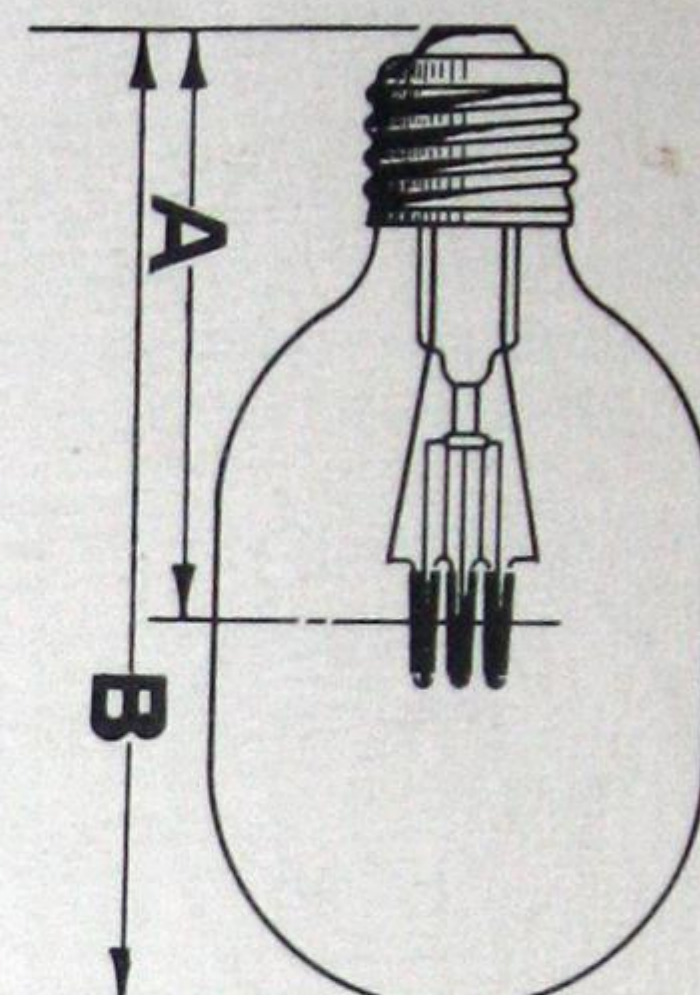
Incandescent Lamps



Standard Globular ("G") Bulb.
Horizontal Burning.



Standard Pearshape ("PS") Bulb.
Vertical Burning. Base Up.



Standard Tubular ("T") Bulb.
Vertical Burning. Base Down.

THE type "C" Mazda lamps shown on this page are listed according to their characteristics and the type of Pyle-O-Lytes in which each may be used. A difference in screw base exists between certain size lamps and this is indicated in the column headed "Screw Base." Since all Pyle-O-Lytes with the exception of the 1045 Series have the Mogul screw socket as standard equipment, the use of an adapter is necessary when lamps having Medium screw bases are to be used with Mogul screw sockets. These adapters may be had with projectors when same are specified on order.

We do not furnish lamps with Pyle-O-Lytes, except on order and exact voltage of the line, wattage and type of lamp should then be given to avoid mistakes and consequent delays. The current lamp price is then added to the net price of the projectors.

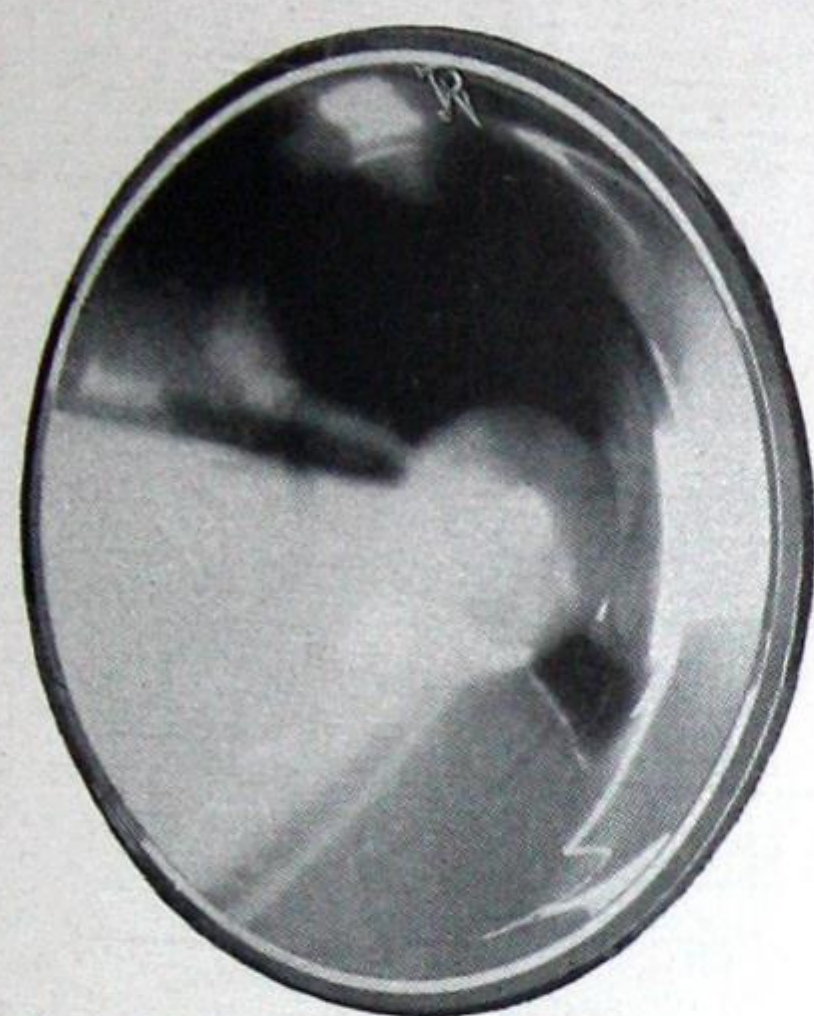
The 115-volt designation in the lamp table includes 110, 115 and 120-volt lamps. The 250-volt designation includes 220, 230, 240 and 250-volt lamps.

Table of Incandescent Lamps

Watts	Volts	Bulb Style	Screw Base	"A" Light Center Length	"B" Overall Length	Standard Pack'ge Quantity	Screw Base Adapters	Watts	Volts	Bulb Style	Screw Base	"A" Light Center Length	"B" Overall Length	Standard Pack'ge Quantity	Screw Base Adapters
1045 SERIES								1260 SERIES—Continued							
100	30 to 34	G-25	Medium	3"	5"	60	None	500	115	PS-40	Mogul	7"	10"	12	None
100	115	G-25	Medium	3"	5"	60	None	500	230	PS-40	Mogul	7"	10"	12	None
250	30 to 34	G-30	Medium	3"	5½"	24	None	750	115	PS-52	Mogul	9½"	13⅜"	8	None
250	115	G-30	Medium	3"	5½"	24	None	750	230	PS-52	Mogul	9½"	13⅜"	8	None
400	115	G-30	Medium	3"	5½"	24	None	1000	115	PS-52	Mogul	9½"	13⅜"	8	None
1445 SERIES								1000	230	PS-52	Mogul	9½"	13⅜"	8	None
250	30 to 34	G-30	Medium	3"	5½"	24	Reducer	1460 SERIES							
250	115	G-30	Medium	3"	5½"	24	Reducer	500	115	PS-40	Mogul	7"	10"	12	None
400	115	G-30	Medium	3"	5½"	24	Reducer	500	230	PS-40	Mogul	7"	10"	12	None
500	115	G-40	Mogul	4¼"	7¼"	12	None	750	115	PS-52	Mogul	9½"	13⅜"	8	None
1260 SERIES								750	230	PS-52	Mogul	9½"	13⅜"	8	None
100	30 to 34	PS-25	Medium	5⅜"	7⅛"	24	Reducer	1000	115	PS-52	Mogul	9½"	13⅜"	8	None
100	60 to 65	PS-25	Medium	5⅜"	7⅛"	24	Reducer	1000	230	PS-52	Mogul	9½"	13⅜"	8	None
100	115	PS-25	Medium	5⅜"	7⅛"	24	Reducer	1500	115	PS-52	Mogul	9½"	13⅜"	8	None
100	230	PS-25	Medium	5⅜"	7⅛"	24	Reducer	900 SERIES							
150	115	PS-25	Medium	5⅜"	7⅛"	24	Reducer	300	28 to 32	T-16	Medium	3"	5½"	12	Reducer
200	115	PS-30	Medium	6"	8⅜"	24	Reducer	250	115	T-14	Medium	3"	5½"	24	Reducer
200	230	PS-30	Medium	6"	8⅜"	24	Reducer	400	115	T-20	Medium	3"	5½"	6	Reducer
300	115	PS-35	Mogul	7"	9¾"	24	None	1000	115	T-20	Mogul	6"	9½"	6	None
300	230	PS-35	Mogul	7"	9¾"	24	None								

PRICES ON APPLICATION

Reflectors



CRYSTAL Glass Reflector
Diffused Beam Type
Great Brilliancy
Fig. 1



NONGLARE Glass Reflector
Concentrated Beam Type
Maximum Penetration with no Glare
Fig. 2



NONGLARE Glass Reflector
Combination Spot and Flood Beam Type
Maximum Utility
Fig. 3

IT is essential that the reflector of any projector be of highest quality as to material, design and workmanship, since the principal worth of the unit lies in the reflector. A poor reflector is usually found in a cheap projector. In Pyle-O-Lytes each reflector represents the best to be had of its kind and is fully guaranteed by the Pyle-National Company to give lasting and efficient service without blistering or discoloration of the reflective surface.

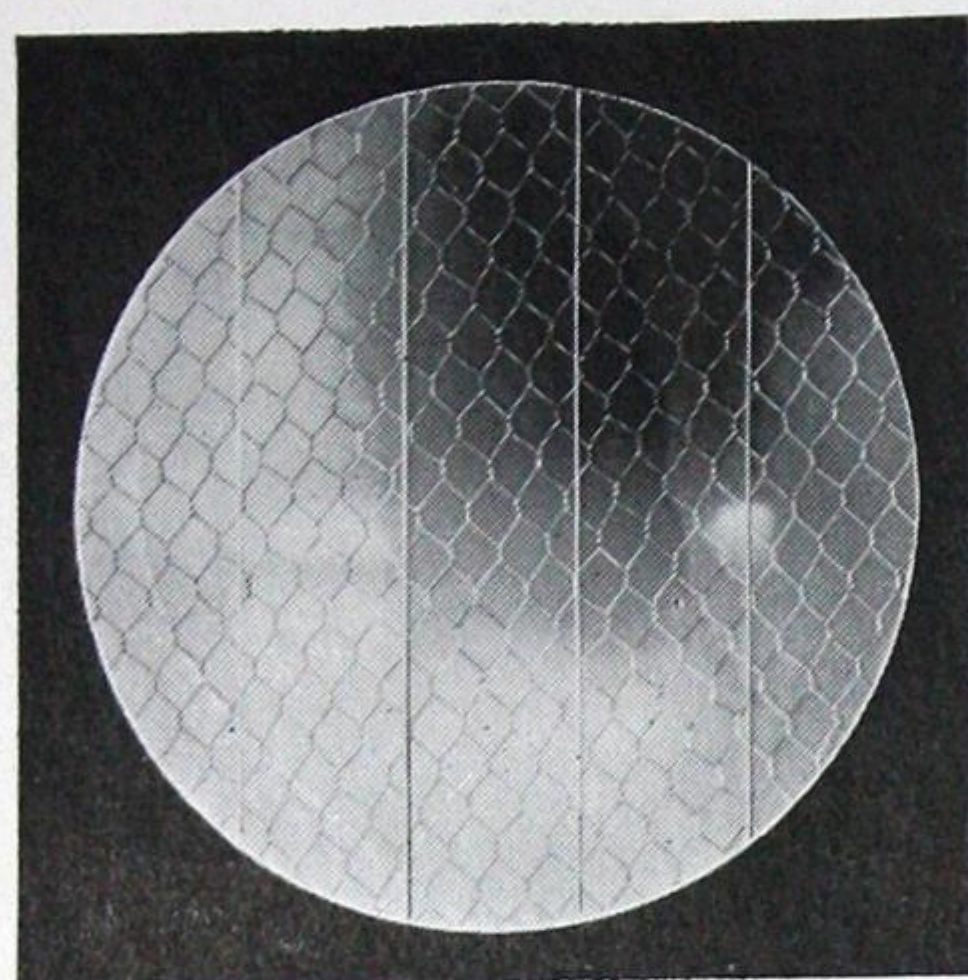
Reflectors for incandescent lamp projection purposes are divided into two general classes according to the style of lamp used. The first class, shown in Figs. 2 and 3, is adapted to the use of the globular ("G") bulb with concentrated filament lamp. The second class, shown in Fig. 1, conforms to the requirements of the pear-shaped (PS) bulb or the tubular ("T") bulb.

A sub-division of the two general classes is based on the material used. All Pyle-O-Lytes may be had with either silver-plated copper or glass reflectors. In ordering specify whether NONGLARE or CRYSTAL glass is required, otherwise NONGLARE will be furnished.

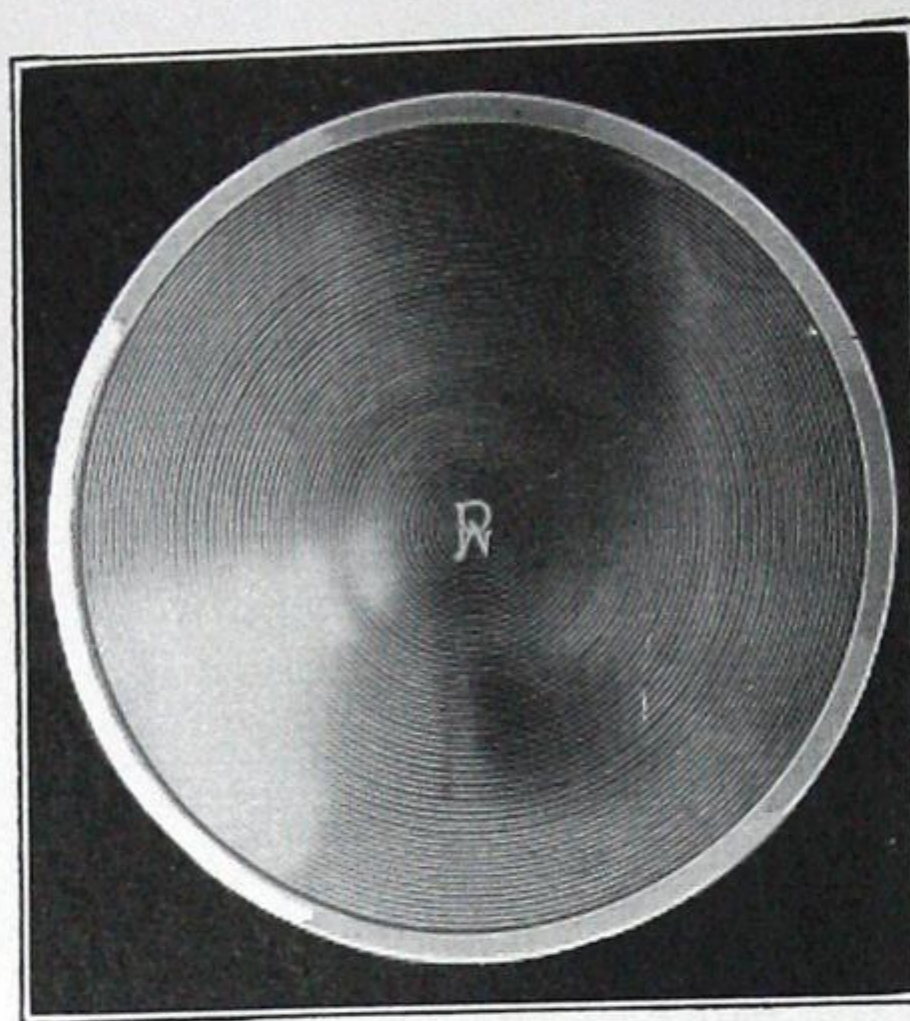
Table of Reflectors

Kind of Reflector	Catalogue Number	Projector in Which Reflector is Used	Diameter in Inches	Kind of Reflector	Catalogue Number	Projector in Which Reflector is Used	Diameter in Inches
1045 SERIES				1260 SERIES			
Silver-plated Copper	10025-C	1045-AC, ACC, ACP, and ACS	10	Silver-plated Copper	1212-C	1260-AC, IC, ACP, ACS, and ICS	11 1/2
NonGlare Glass ----	10025-G	1045-AG, AGC, AGP, and AGS	10	NonGlare Glass ----	1212-G	1260-AG, IG, AGP, AGS, and IGS	11 1/2
Crystal Glass-----	10025-S	1045-AG, AGC, AGP, and AGS	10	Crystal Glass-----	1212-S	1260-AG, IG, AGP, AGS, and IGS	11 1/2
1445 SERIES				900 SERIES			
Silver-plated Copper	14014-EC	1445-AC, IC, ACC, ACS, and ICS	14 3/8	Crystal Glass-----	-----	900-BGC	9
NonGlare Glass ----	14014-EG	1445-AG, IG, AGC, AGS, and IGS	14 3/8	1460 SERIES			
Crystal Glass-----	14014-ES	1445-AG, IG, AGC, AGS, and IGS	14 3/8	Silver-plated Copper	1414-C	1460-AC, IC, ACS, and ICS	14
				NonGlare Glass ----	1414-G	1460-AG, IG, AGS, and IGS	14
				Crystal Glass-----	1414-S	1460-AG, IG, AGS, and IGS	14

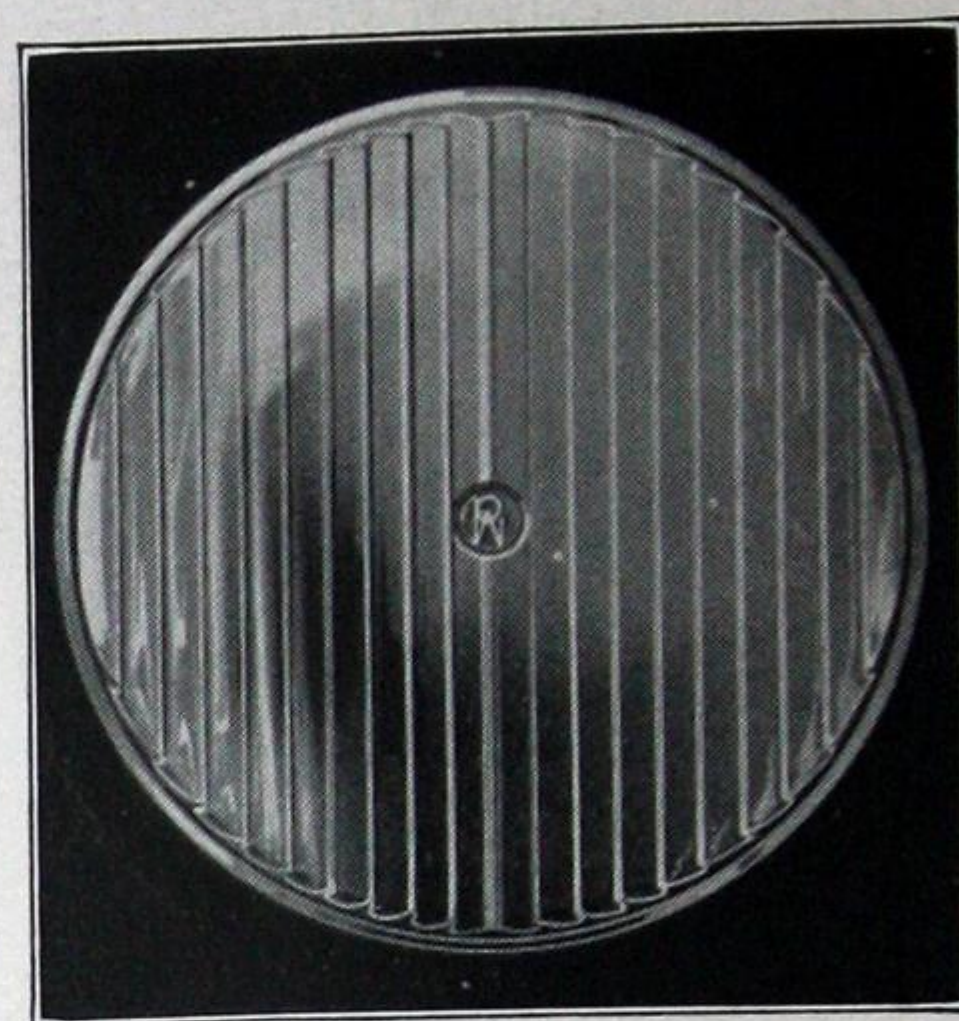
Front Glass and Light Control Lenses



Clear Wire Glass
Fig. 1



Circular Divergence Lens
Fig. 2



Rectangular Divergence Lens
Fig. 3

PYLE-O-LYTES have a standard front glass of polished plate with woven wire cast into it. This glass, shown in Fig. 1, is furnished with all projectors when light control lenses are not specified in ordering. Light absorption is very slight because of the extra clarity of this glass.

Pyle-National Divergence Lenses are designed by our own able engineers and are especially suitable to illumination requirements of all kinds, in connection with Pyle-O-Lytes, by reason of their refractive characteristics which produce uniform, accurate distribution of the light with a minimum loss through absorption. They are made of a glass capable of resisting high temperatures or abrupt changes in temperature without injury.

The Circular Divergence Lens, shown in Fig. 2 has the quality of distributing the light through an extremely wide angle and completely around the axis of projection, covering a large area at relatively close range with light of uniform intensity. This lens should be specified for projectors which must be located close to the area to be illuminated, as in sign and building flood-lighting. By the use of this lens, uniformity of light is assured with fewer units. It can be furnished with any size or capacity of Pyle-O-Lytes. See data sheet for capacity of projectors equipped with it, page 3.

The Rectangular Divergence Lens shown in Fig. 3, is invaluable for sign illumination since it forms the projected rays of light into rectangular shape and distributes them uniformly over a large area. This means that one projector equipped with this lens will illuminate a rectangular area of dimensions corresponding to the divergence as stated on the data sheet.

Table of Lenses and Front Glasses

Front Glass or Lens	Catalogue Number	Diameter	Front Glass or Lens	Catalogue Number	Diameter
1045 SERIES			1260 SERIES		
Standard Sectional Wire-glass.....	10038	11 1/2"	Standard Sectional Wire-glass.....	12042-P	12"
Circular Divergence Lens.....	10038-S	11 1/2"	Circular Divergence Lens.....	12042-S	12"
1445 SERIES			1460 SERIES		
Standard Sectional Wire-glass.....	14042-P	14 3/4"	Standard Sectional Wire-glass.....	14042-P	14 3/4"
Circular Divergence Lens.....	14042-S	14 3/4"	Circular Divergence Lens.....	14042-S	14 3/4"
Rectangular Divergence Lens.....	1442-F	14 3/4"	Rectangular Divergence Lens.....	1442-F	14 3/4"

PRICES ON APPLICATION

Ventilation

IN Pyle-O-Lytes designed for the use of horizontal burning lamps, ventilator hoods of ample size are cast integral with the projector housing and openings are provided under the body thus creating a continuous current of air through the projector. The larger projectors for heavier wattage, vertical burning lamps, have baffled air vents of generous proportions at top and bottom of the housing.

Focusing Arrangements

THE projectors for horizontal burning lamps have provision made for adjustment of the filament location in a forward and back direction only since there is no practical use for vertical or lateral adjustment with this type of lamp. The focusing tube is firmly held in the desired adjustment by a thumbscrew and in the 1045 Series the tube, socket and lamp may be removed together to provide access to the interior or for lamp changes.

The projectors for vertical burning lamps have a separate cast cap, secured by a bar screw, which carries the lamp socket and lamp and permits $\frac{3}{4}$ -inch movement of the lamp filament in all horizontal directions. Vertical adjustment is provided to compensate for all differences in light center length existing between the standard lamps listed for use in Pyle-O-Lytes. (Note dimension "A" in Table of Lamps, Page 4.)

Projector Housings

SHEET metal housings for such purposes as flood-light projectors have been much used in the past but have never been permanently successful due to their inability to withstand vibration, hard knocks, corrosion, or rusting and a tendency to buckle or warp out of shape. Castings have been found more substantial and satisfactory and cast-iron is used considerably. However, even with cast-iron there is a likelihood of rusting and its weight makes it almost prohibitive in the large units. The best metal for the purpose, used in all types of Pyle-O-Lytes, is ALUMINUM-ALLOY, which is not only absolutely rust and gas proof but is exceedingly light and strong. The aluminum has the quality of quickly transmitting the heat radiated from the lamp thus affording additional protection to the reflector and lamp parts.

Key to Type Symbol Numbers

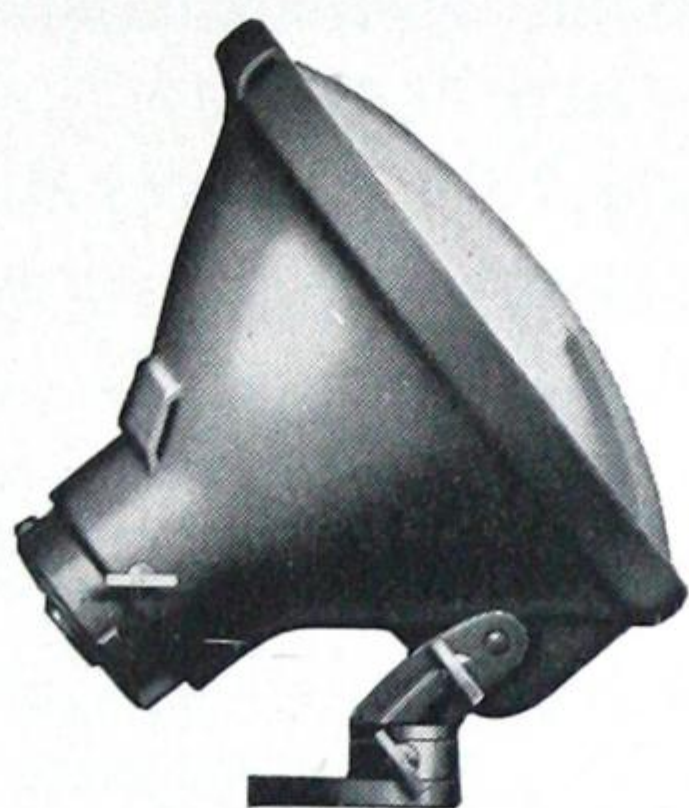
THE first one or two figures represent approximate reflector diameters, as 9", 10" or 14". The last two figures are "45" when a "G" (globular) bulb is used. They are "60" for "PS" (pear-shaped) bulb and "00" for "T" (tubular) bulb. When first letter is "A"—cast-aluminum-alloy body. "I"—cast iron body. "B"—brass. When second letter is "C"—copper reflector. "G"—glass reflector. When third letter is "C"—pilot-house control. "P"—portable. "S"—pipe standard. Thus 1445-ACC means a 14" reflector, "G" type bulb, aluminum-alloy body, copper reflector and pilot-house control, while 900-BGC would be a 9" glass reflector, tubular bulb and brass body with pilot-house control.

The 1045 Series

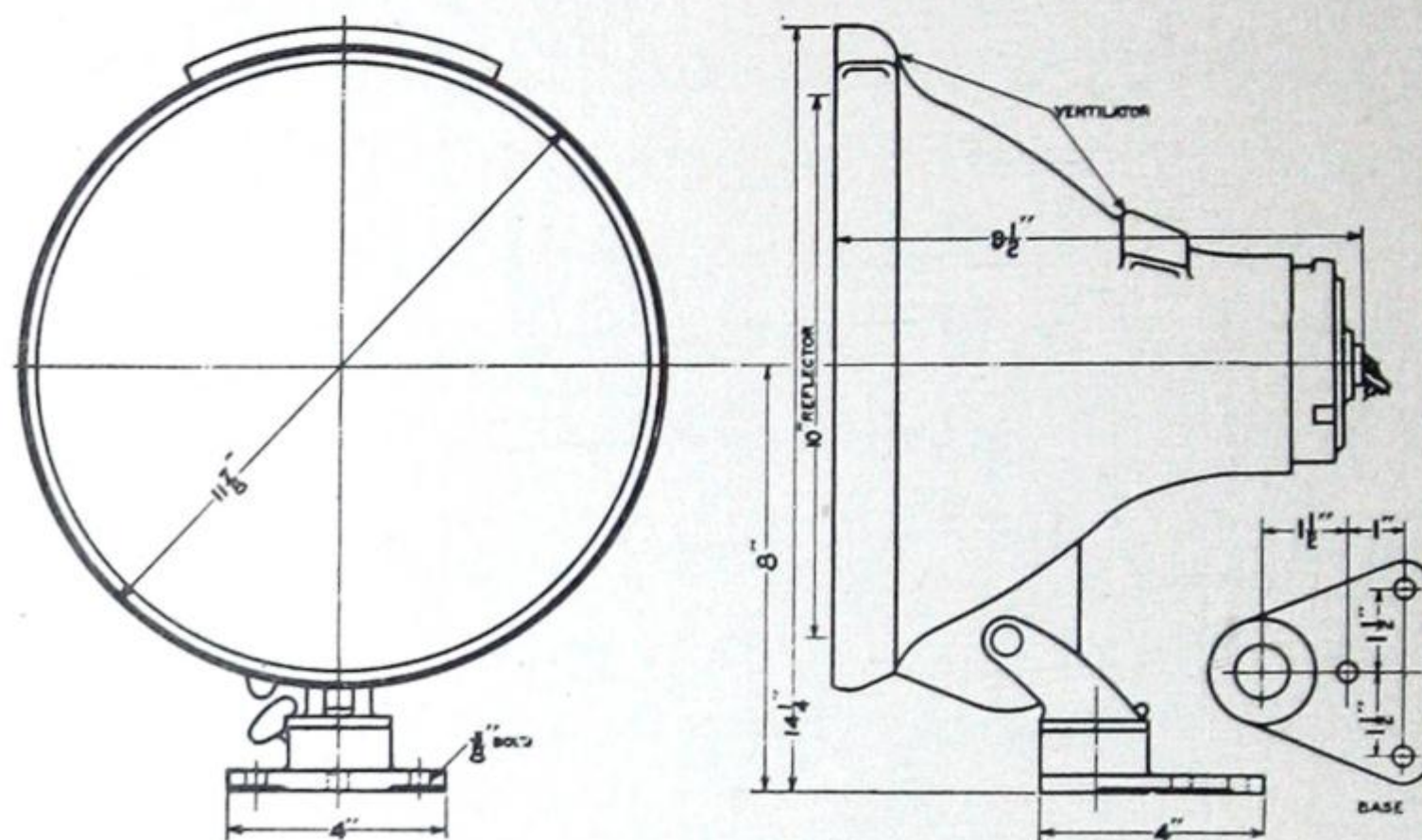
THE 1045 design is for use of the globular bulb in sizes up to 250 watts. Such lamps are standard for flood-lighting, locomotive headlighting and general projection work.

A basic body design and various arrangements and mountings of the same to suit special requirements make up the series shown on this and the three following pages.

There are certain features of the design which are common to all the 1045 types and these are briefly listed below as "General Specifications" while items of data and design characterizing the several types are headed "Individual Specifications." For the complete description of any one projector both specifications should, therefore, be consulted.



Types 1045-AC and AG



Dimensions

TYPES 1045-AC and AG are suitable for any general service lighting within their capacity. They have reflectors designed to give either a far-reaching beam or a flood of light. Its normal distance capacity with a 250-watt lamp is over 700 feet. By use of Pyle-National Dispersion Lenses (see Pages 6 and 3, Chart No. 1), these projectors will supply an evenly distributed light of wide divergence and glare is eliminated. They are invaluable for sign or building illumination and have a large field in general area lighting. They have combined in them efficiency, strength and durability.

1045 Series — General Specifications

<i>Body</i>	Aluminum-alloy casting.
<i>Focusing Tube</i>	Aluminum-alloy casting.
<i>Front Glass and Lenses</i>	(See Lens Data, Pages 6 and 3.)
<i>Standard Leads</i>	Two No. 14 extra-flexible weather-proof wires.
<i>Standard Lamp Receptacle</i>	Porcelain body. Medium screw-socket with lamp grip.
<i>Lamps</i>	Mazda "C"—G bulbs—100 to 250 watts. (See Lamp List, Page 4.)
<i>Capacity</i>	(See Data Sheet on Page 3, Chart No. 1.)
<i>Finish</i>	Battle-ship gray, or black enamel.
<i>Dimensions</i>	(See sketches accompanying specifications.)

Type 1045-AC — Individual Specifications

(Note General Specifications)

MOUNTING	Malleable iron base. Bronze swivel bracket.
REFLECTOR	10-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	14 pounds.
APPROX. SHPG. WT.	35 pounds.

Type 1045-AG — Individual Specifications

(Note General Specifications)

MOUNTING	Malleable iron base. Bronze swivel bracket.
REFLECTOR	10-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	16 pounds.
APPROX. SHPG. WT.	37 pounds.

PRICES ON APPLICATION

The 1045 Series

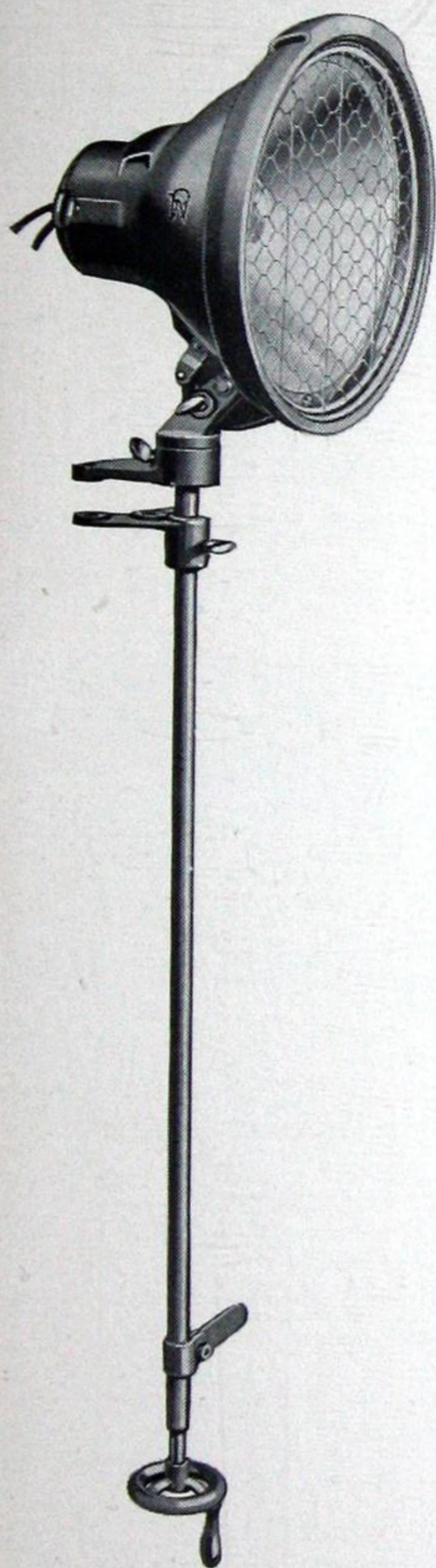
Types 1045-ACC and 1045-AGC

TYPES 1045-ACC and AGC are adaptations of the standard design which enable the operator of locomotive, steam shovel, locomotive crane, tug, or other machine to control the light in any direction from within the cab, housing or pilot-house. They are capable of either spot beam or flood light projection and when using a 250-watt concentrated filament lamp in focus have a distance capacity of over 700 feet.

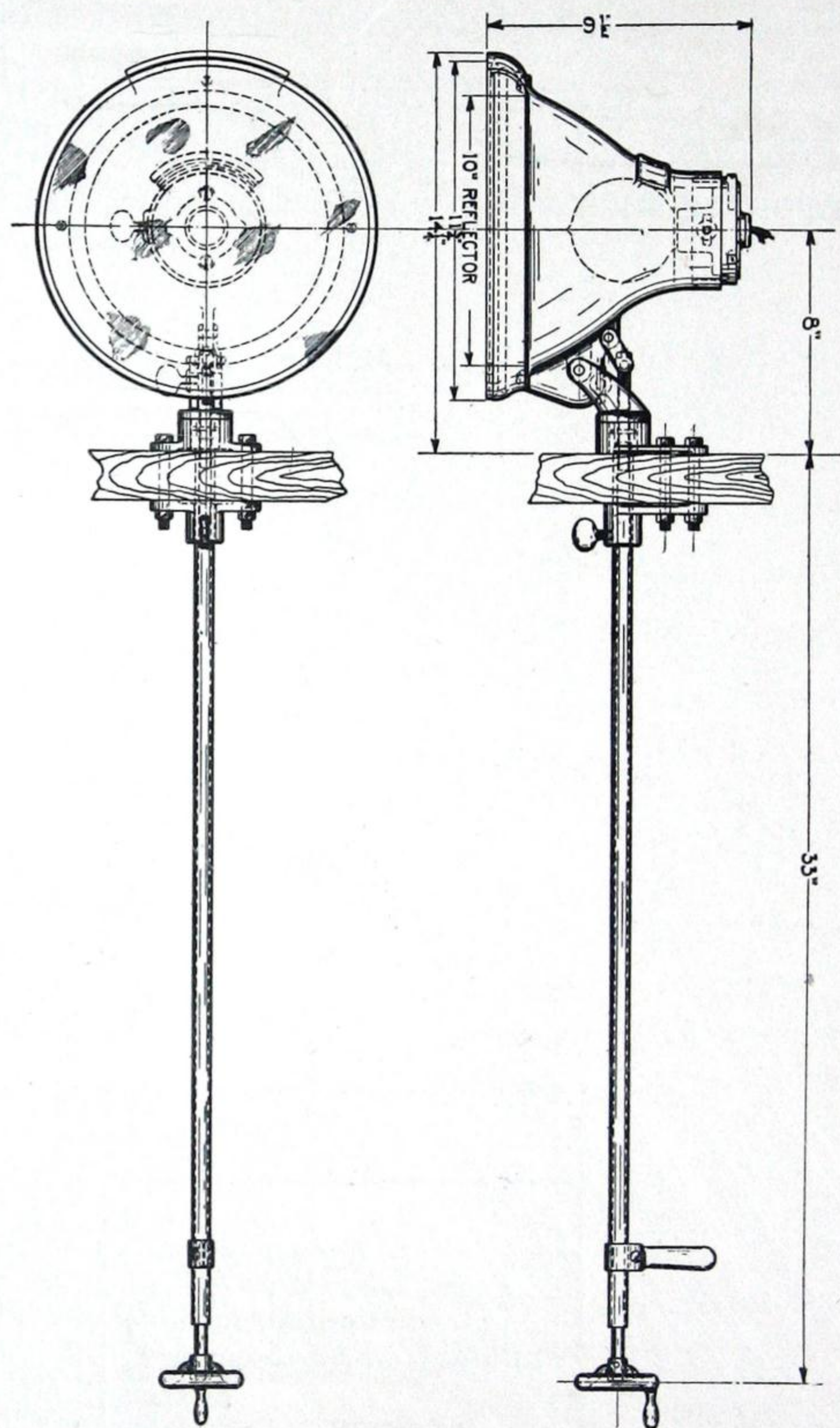
The projector and its parts are as nearly rust-proof as an aluminum-alloy body with bronze and sherardized steel fittings can make it. The control design is simple, dependable and efficient and the rods may be extended to any convenient length, 33 inches being the standard.

When equipped with Pyle-National Circular Dispersion Lenses (see Pages 6 and 3, Chart No. 1), a wide-angled flood of evenly distributed light is obtainable.

This arrangement may be adapted to distant control for river craft and other boats by means of sprockets and chains connected by wire cable. Such accessories are not furnished, however, unless ordered in quantity.



Types 1045-ACC and AGC



Dimensions

Type 1045-ACC — Individual Specifications

(Note General Specifications)

MOUNTING	Standard base with pilot-house control attachment.
CONTROL RODS	Steel tubing and rod. Standard length, 33 inches.
REFLECTOR	10-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	20 pounds.
APPROX. SHPG. WT.	45 pounds.

Type 1045-AGC — Individual Specifications

(Note General Specifications)

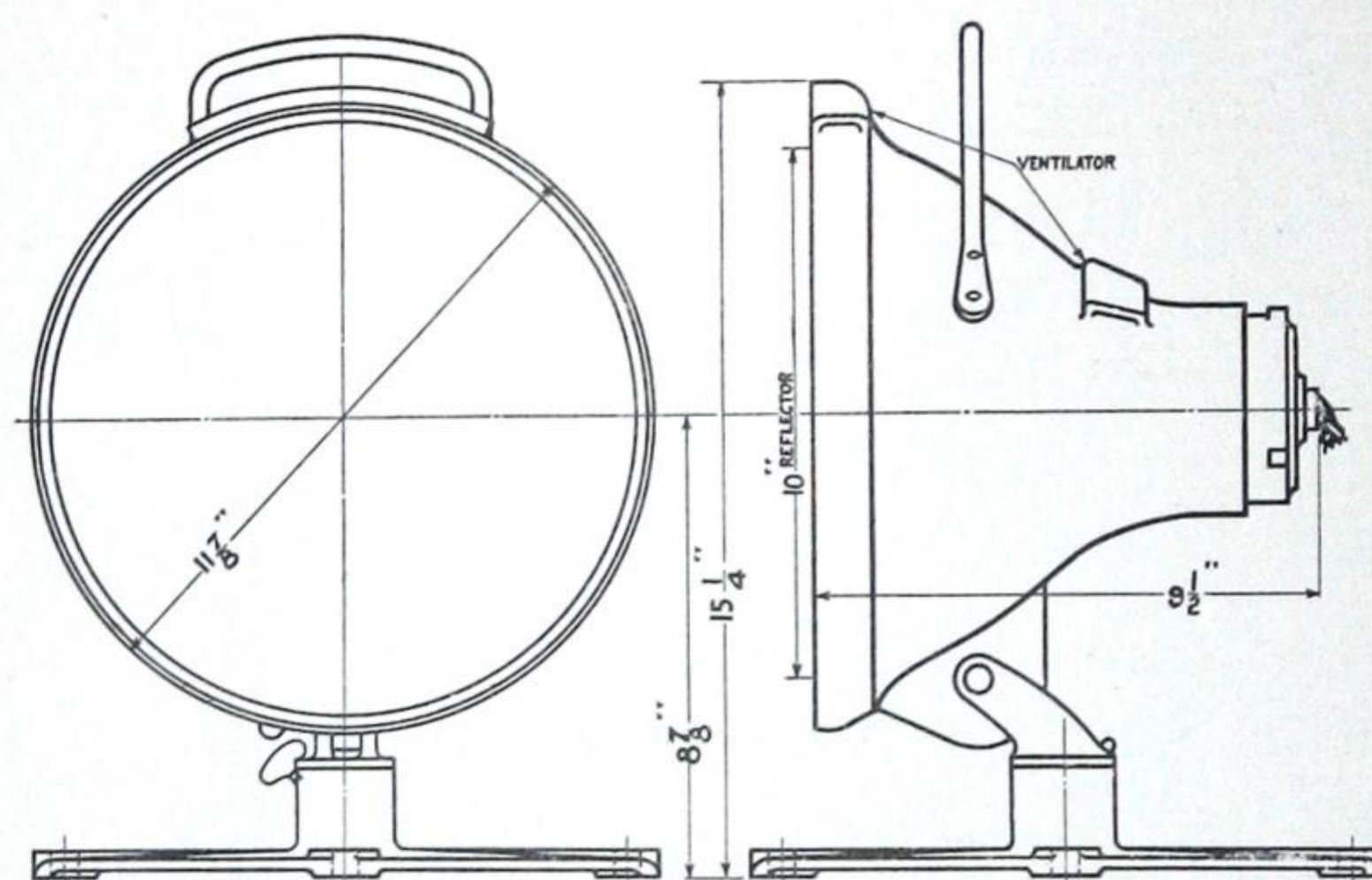
MOUNTING	Standard base with pilot-house control attachment.
CONTROL RODS	Steel tubing and rod. Standard length, 33 inches.
REFLECTOR	10-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	22 pounds.
APPROX. SHPG. WT.	47 pounds.

The 1045 Series

Types 1045-ACP and AGP

BECAUSE their design calls for the use of the G-25 and 30 concentrated filament lamp the 1045 projectors are peculiarly adapted for use about railroads, shops, and round-houses where these lamps are standard for locomotive headlighting in 32 volts. Thus the 1045-ACP or AGP portable Pyle-O-Lytes may be plugged into the locomotive headlighting circuit of any live engine and will produce wonderfully efficient illumination, especially when equipped with a Pyle-National Circular Dispersion Lens. (See Pages 6 and 3, Chart No. 1.) This lens diffuses the light uniformly through a wide angle and kills all glare.

For use on 110-volt house circuits these projectors may be equipped with the standard G-30 flood-lighting lamps, which are easily obtainable, and are thus fitted for all classes of work requiring such a light, ruggedly built, rust-proof, portable unit.



Dimensions
Types 1045-ACP and AGP
Portable Pyle-O-Lyte

1045 Series — General Specifications

<i>Body</i>	Aluminum-alloy casting.
<i>Focusing Tube</i>	Aluminum-alloy casting.
<i>Front Glass and Lenses</i>	(See Lens Data, Pages 6 and 3.)
<i>Standard Leads</i>	Two No. 14 extra-flexible weather-proof wires.
<i>Standard Lamp Receptacle</i>	Porcelain body. Medium screw-socket with lamp grip.
<i>Lamps</i>	Mazda "C"—G bulbs—100 to 250 watts. (See Lamp List, Page 4.)
<i>Capacity</i>	(See Data Sheet on Page 3, Chart No. 1.)
<i>Finish</i>	Battle-ship gray, or black enamel.
<i>Dimensions</i>	(See sketches accompanying specifications.)

Type 1045-ACP — Individual Specifications

(Note General Specifications)

MOUNTING	Pressed steel or cast aluminum-alloy base. Bronze swivel bracket. Forged carrying handle.
REFLECTOR	10-inch Silver-plated copper. (See Reflector List, Page 5.)
LEADS	Two No. 14 extra-flexible weather-proof wires with attachment plug.
APPROX. NET WT.	15 1/2 pounds.
APPROX. SHPG. WT.	36 pounds.

Type 1045-AGP — Individual Specifications

(Note General Specifications)

MOUNTING	Pressed steel or cast aluminum-alloy base. Bronze swivel bracket. Forged carrying handle.
REFLECTOR	10-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
LEADS	Two No. 14 extra-flexible weather-proof wires with attachment plug.
APPROX. NET WT.	17 1/2 pounds.
APPROX. SHPG. WT.	38 pounds.

PRICES ON APPLICATION

The 1045 Series

Types 1045-ACS and 1045-AGS

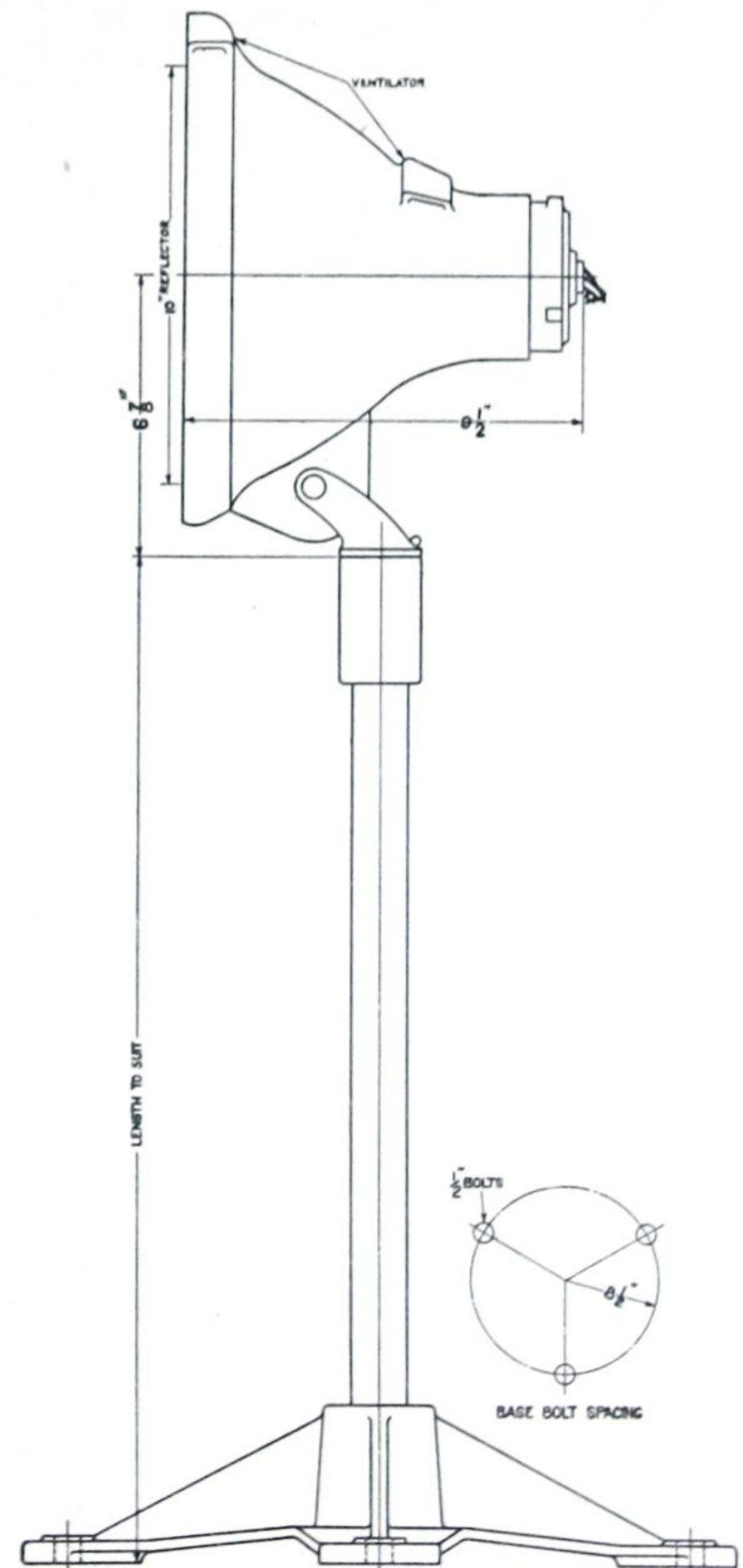
TYPES 1045-ACS and AGS are designed to provide for the standard 1045 projector a mounting which can be used conveniently in all situations requiring frequent shifting of the light, also where an extension and substantial base are desirable in order to mount the projector at a sufficient height. These conditions usually obtain about construction work where only low structures or none at all are available on which to locate the units.

The Pyle-O-Lytes of this type are therefore especially recommended to contractors for building, excavating and all construction operations as being adapted to their particular purpose. The same design of mounting applies to the 1260, 1445, and 1460 Series of Pyle-O-Lytes, base and adapter being standard for all sizes.

Pipe is not furnished with these types unless length is specified in ordering when a nominal charge per foot will be added to the net price to cover cost of one-inch galvanized pipe and cutting to length.



Pyle-O-Lytes in Oil Well Derrick Lighting



*Types 1045-ACS and AGS
Dimensions*

Type 1045-ACS — Individual Specifications

(Note General Specifications)

MOUNTING	Cast-iron base tapped for one-inch pipe extension.
REFLECTOR	10-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 28 pounds.
APPROX. SHPG. WT.	Without pipe, 55 pounds.

Type 1045-AGS — Individual Specifications

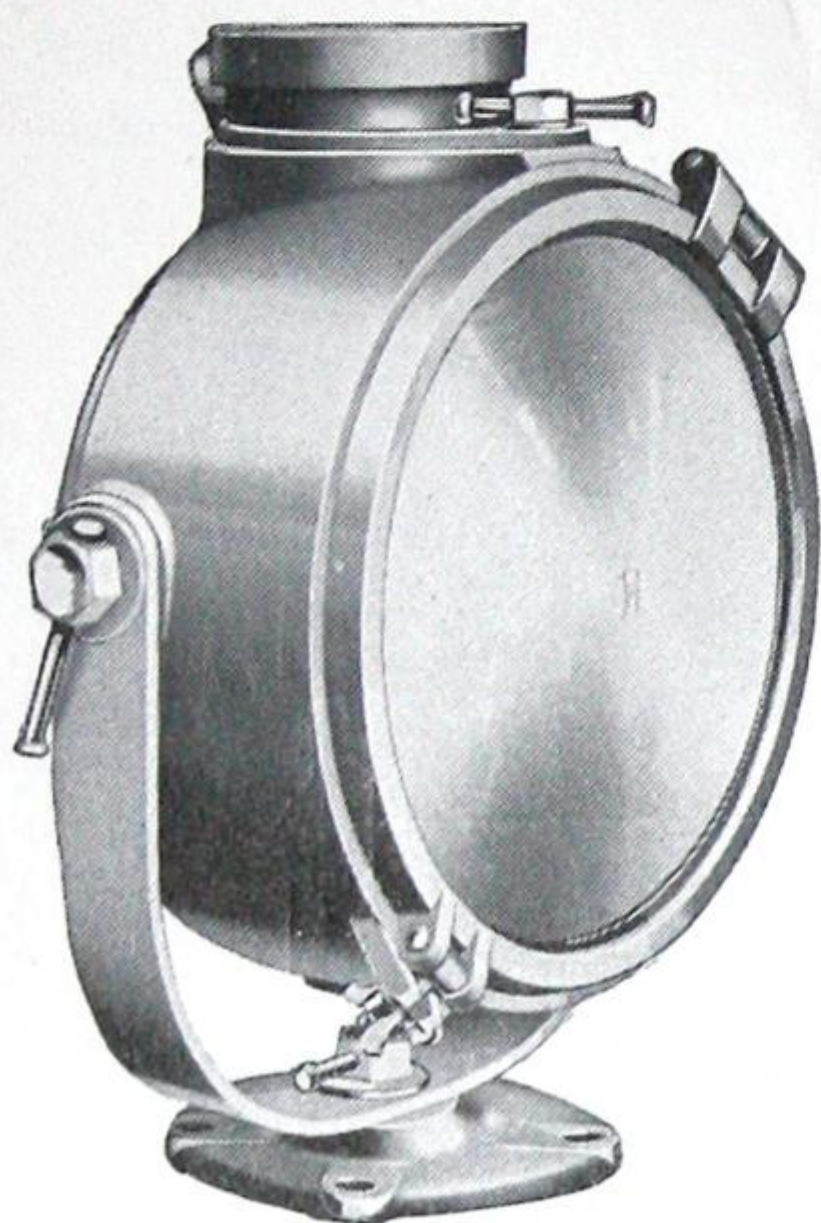
(Note General Specifications)

MOUNTING	Cast-iron base tapped for one-inch pipe extension.
REFLECTOR	10-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 30 pounds.
APPROX. SHPG. WT.	Without pipe, 57 pounds.

PRICES ON APPLICATION

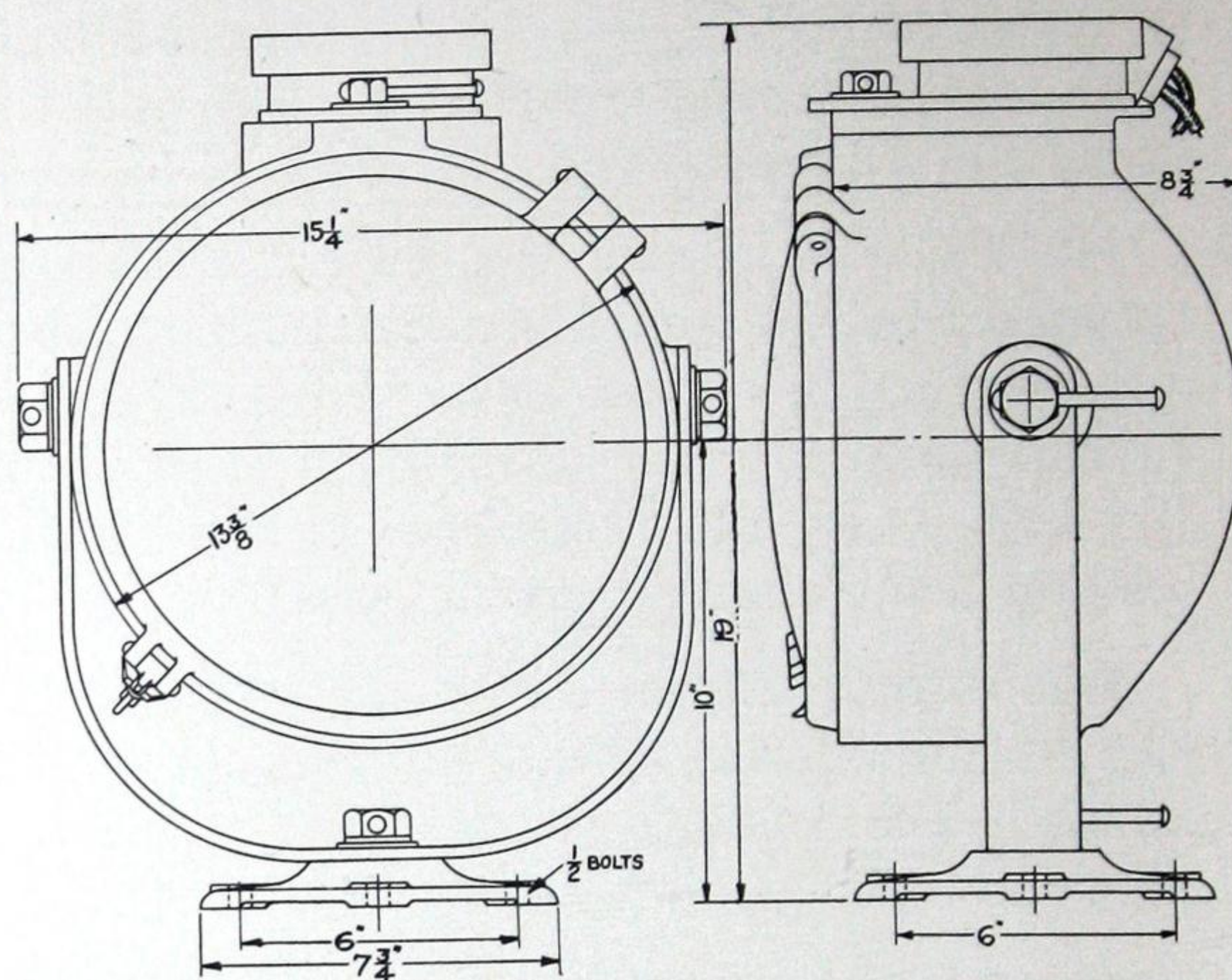
The 1260 Series

IN this design provision has been made for the use of the standard PS type of incandescent lamp bulb which is designed for vertical burning, base up. The types shown and described on this and the three following pages make up the series 1260 and from among them a projector adaptable to many classes of flood-lighting may be selected.



Types 1260-AC, AG, IC and IG

Points of design and construction common to all types in the 1260 Series are listed under "General Specifications" while features and data applicable to the separate types are headed "Individual Specifications." An accurate description of any single unit may thus be obtained by combining the general and individual items.



Dimensions

1260 Series—General Specifications

*Focusing and Ventilating Cap
Front Glass and Lenses
Standard Lamp Receptacle
Standard Leads
Lamps*

*Capacity
Finish
Dimensions*

Aluminum-alloy casting.
(See Lens Data, Pages 6 and 3.)
Porcelain body, Mogul screw socket.
Two No. 14 extra-flexible weather-proof wires.
Mazda "C," PS bulbs 100 to 1,000 watts. (See Lamp List, Page 4.)
(See Data Sheet, Page 3, Chart No. 2.)
Battle-ship gray, or black enamel.
(See sketches accompanying specifications.)

Type 1260-AC—Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	11 1/2-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	30 pounds.
APPROX. SHPG. WT.	62 pounds.

Type 1260-IG—Individual Specifications

(Note General Specifications)

BODY	First quality gray iron casting.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	11 1/2-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	50 pounds.
APPROX. SHPG. WT.	82 pounds.

Type 1260-AG—Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	11 1/2-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	33 pounds.
APPROX. SHPG. WT.	64 pounds.

Type 1260-IC—Individual Specifications

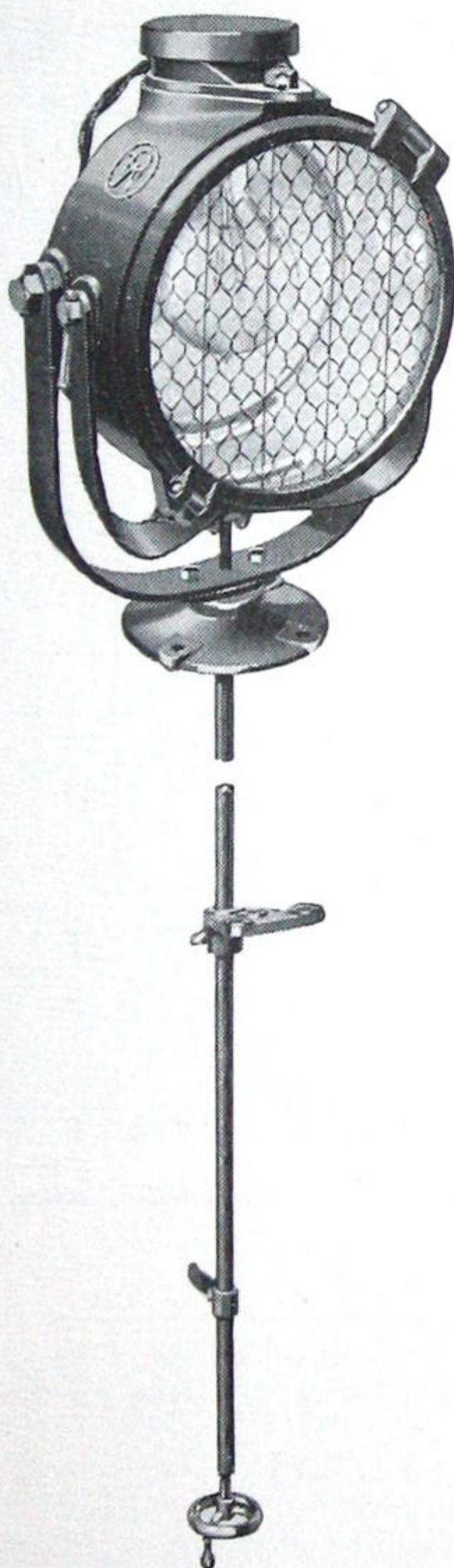
(Note General Specifications)

BODY	First quality gray iron casting.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	11 1/2-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	47 pounds.
APPROX. SHPG. WT.	78 pounds.

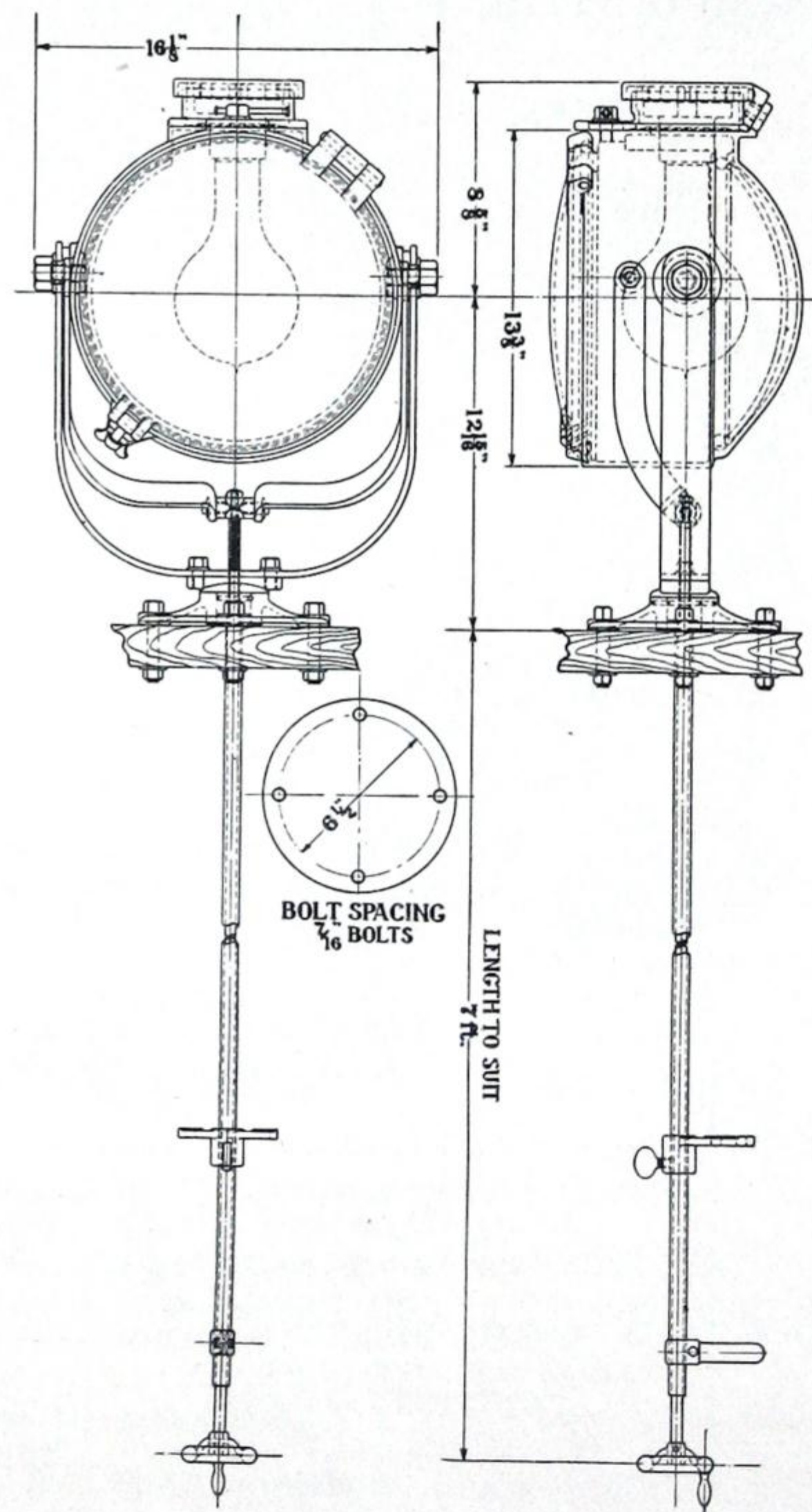
The 1260 Series

Types 1260-ACC and 1260-AGC

THE standard pilot-house control arrangement, used on all Pyle-O-Lytes with fork suspension, is shown on the types described below. This device brings the capacity of the 1260 projector within the convenient control of the operators of dredges, steam shovels, locomotive cranes, marine craft, etc., and permits the use of the pear-shaped bulb where the globular bulbs with concentrated filament lamps are not considered desirable. The beam of light is, of course, not as far reaching as with the standard projection lamp, but some dispersion is desirable and if the maximum uniform divergence is required, Pyle-National Circular Dispersion Lenses (See Pages 6 and 3, Chart No. 2), should be specified in ordering. The control column has a standard length of 33 inches, but if an increase in this length is requested in ordering, it will be furnished at a nominal charge per foot, added to the net price.



Types 1260-ACC and AGC



Dimensions

Type 1260-ACC — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Universal pilot-house control attachment.
REFLECTOR	11 1/2-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	41 pounds.
APPROX. SHPG. WT.	70 pounds.

Type 1260-AGC — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Universal pilot-house control attachment.
REFLECTOR	11 1/2-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	44 pounds.
APPROX. SHPG. WT.	74 pounds.

PRICES ON APPLICATION

The 1260 Series

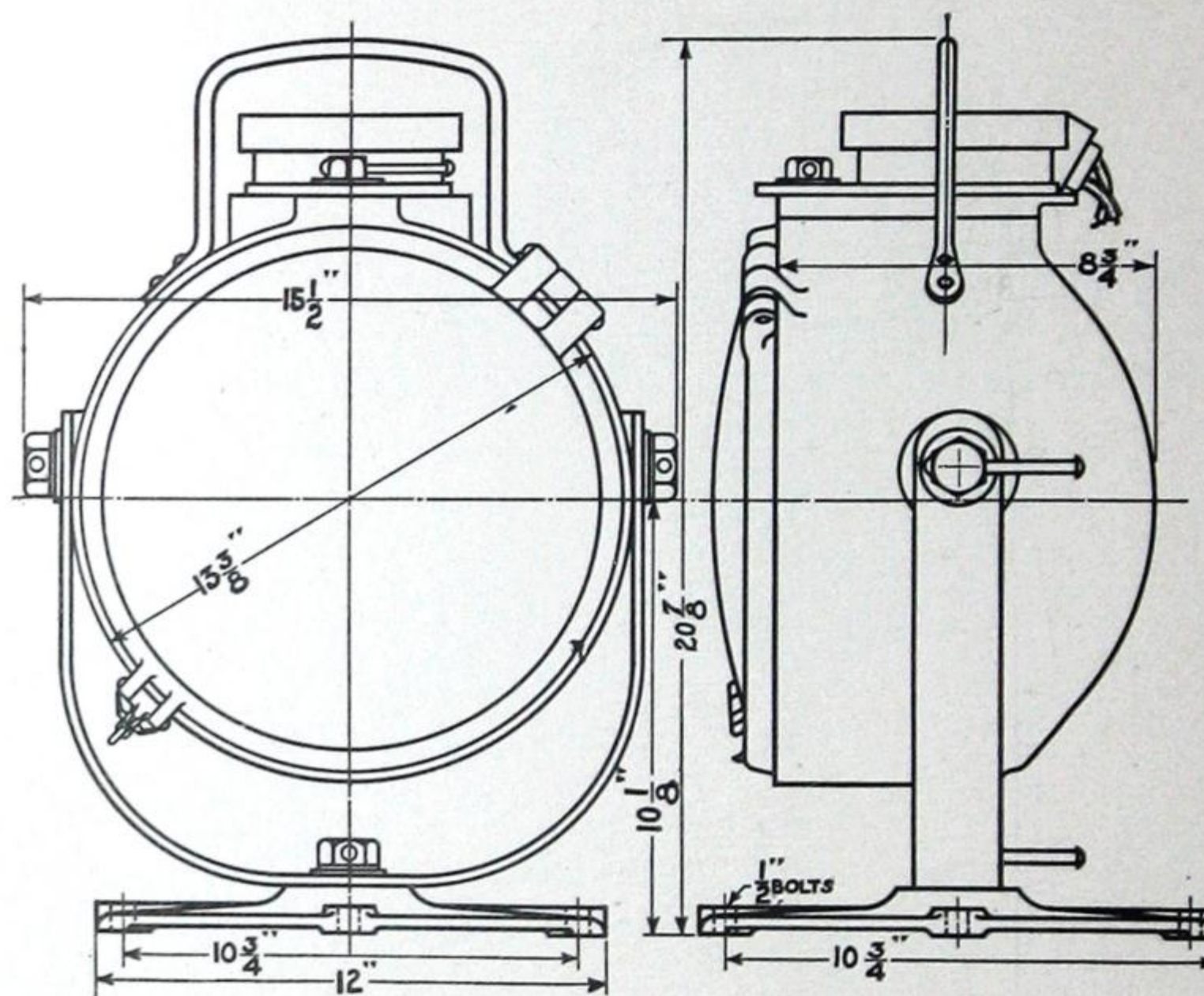
Types 1260-ACP and 1260-AGP

THE projectors 1260-ACP and AGP, described on this page are designed for use as portable lighting units and because of their extraordinary combination qualities of rugged construction, light weight, convenient size and efficient projection they are invaluable adjuncts to the lighting equipment of any shop, round-house, plant or operation where a powerful portable flood-light unit is required. The construction throughout demonstrates that full consideration has been given to the rough treatment incidental to such service. All excess weight has been eliminated, in this mounting so that the aluminum body represents a large percentage of the total weight.

When used with Pyle-National Circular Dispersion Lenses (see Pages 6 and 3, Chart No. 2), the light is evenly distributed over a wide area and glare is entirely eliminated. Provision will be made for use of any size standard PS lamp in this projector if desired size is mentioned in ordering, otherwise it will be furnished for use of 300 or 500-watt lamps.



Types 1260-ACP and AGP



Dimensions

1260 Series — General Specifications

*Focusing and Ventilating Cap
Front Glass and Lenses
Standard Lamp Receptacle
Standard Leads
Lamps*

*Capacity
Finish
Dimensions*

Aluminum-alloy casting.
(See Lens Data, Pages 6 and 3.)
Porcelain body, Mogul screw socket.
Two No. 14 extra-flexible weather-proof wires.
Mazda "C," PS bulbs 100 to 1,000 watts. (See Lamp List, Page 4.)
(See Data Sheet, Page 3, Chart No. 2.)
Battle-ship gray, or black enamel.
(See sketches accompanying specifications.)

Type 1260-AGP — Individual Specifications

(Note General Specifications)

BODY MOUNTING	Aluminum-alloy casting. Pressed steel or cast aluminum-alloy swivel base. Forged bracket and handle.
REFLECTOR	11 1/2-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
LEADS	Two No. 14 extra-flexible weather-proof wires with attachment plug.
APPROX. NET WT.	43 pounds.
APPROX. SHPG. WT.	87 pounds.

Type 1260-ACP — Individual Specifications

(Note General Specifications)

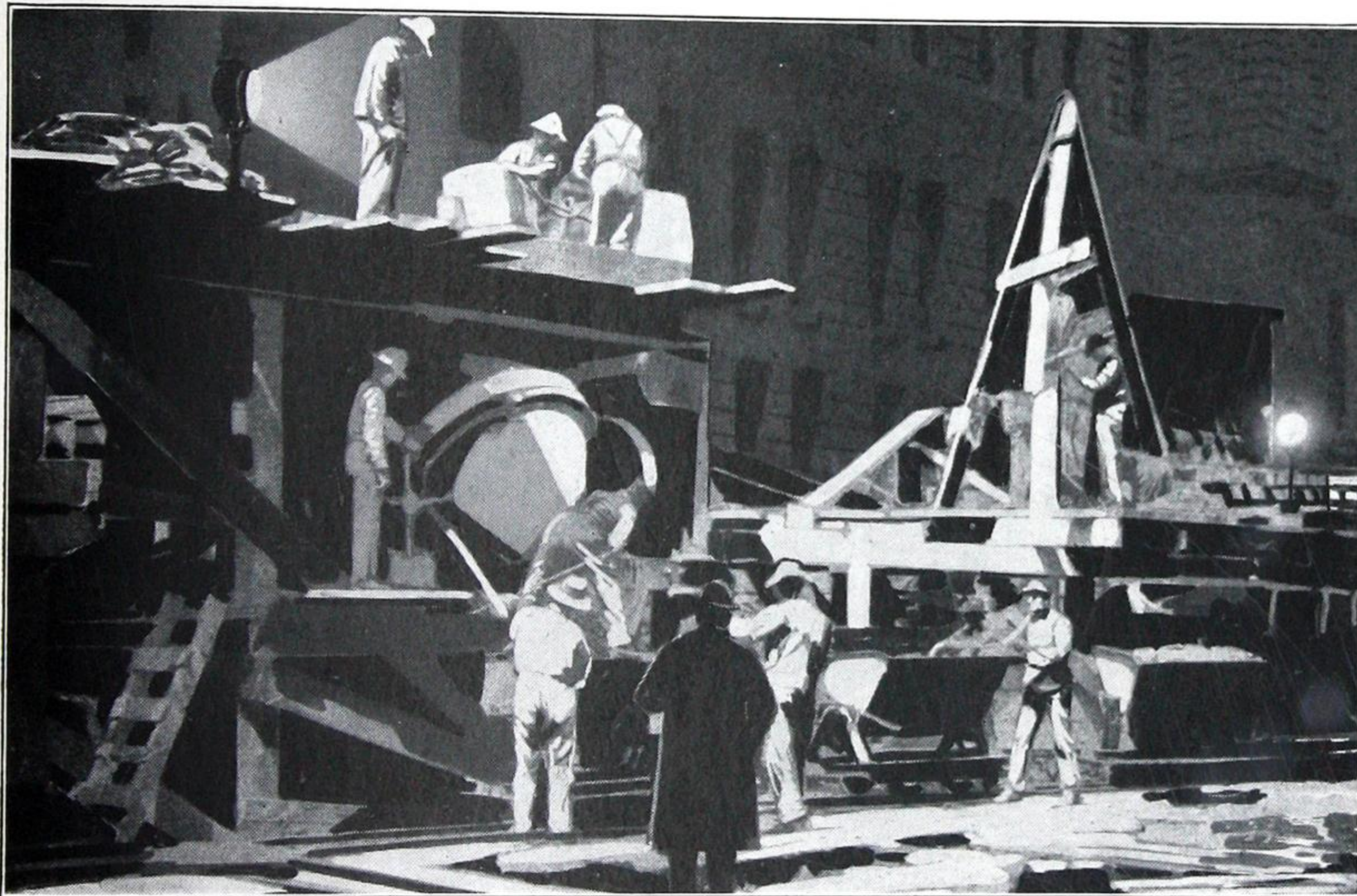
BODY MOUNTING	Aluminum-alloy casting. Pressed steel or cast alluminum-alloy swivel base. Forged bracket and handle.
REFLECTOR	11 1/2-inch Silver-plated copper. (See Reflector List, Page 5.)
LEADS	Two No. 14 extra-flexible weather-proof wires with attachment plug.
APPROX. NET WT.	40 pounds.
APPROX. SHPG. WT.	83 pounds.

PRICES ON APPLICATION

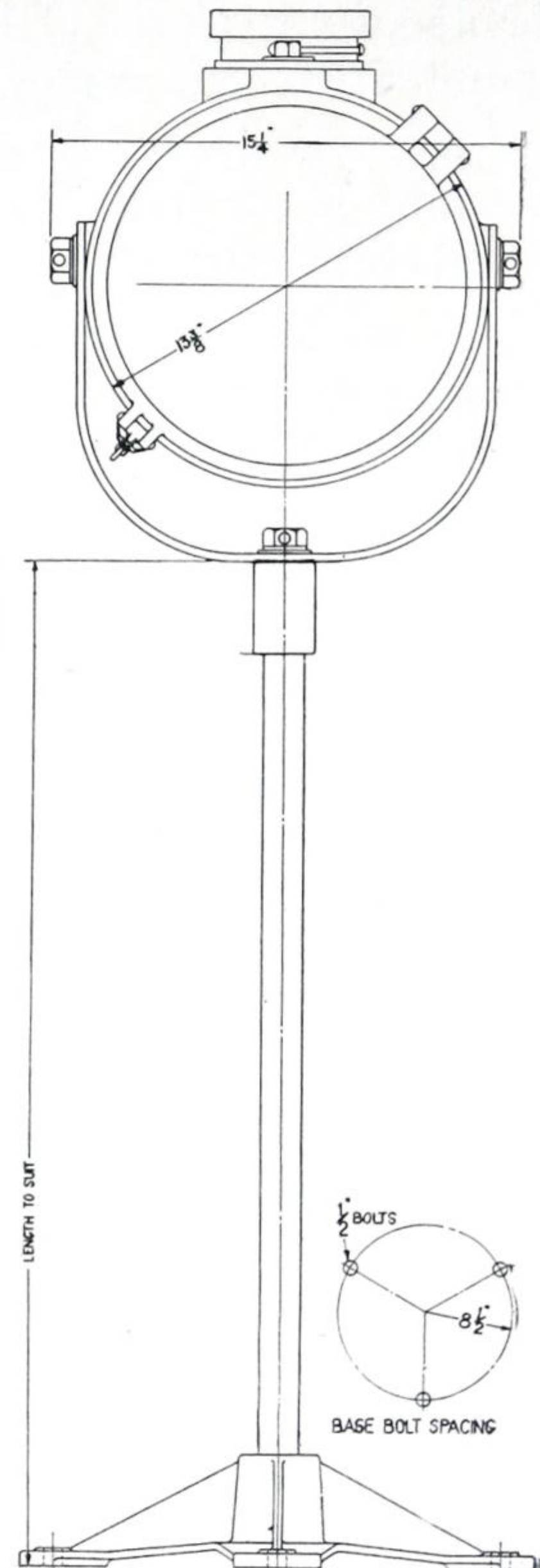
The 1260 Series

Types 1260-ACS, AGS, ICS and IGS

THE adaptation of the 1260 design shown and described on this page replaces the standard base, using instead a larger cast base, into which a convenient length of one-inch pipe may be fitted. An adapter casting which also fits one-inch pipe takes the standard base screw thus providing a universally adjustable mounting for the projector, which is in other respects identical with the standard types. This arrangement can be used for lighting all classes of construction operations where the light location must be shifted occasionally. While pipe is not supplied with these projectors, it can be furnished on order at a nominal charge per foot of length, added to the net price.



Illumination of Construction Work by 1260-ACS Pyle-O-Lytes



*Types 1260-ACS, AGS, ICS and IGS
Dimensions*

Type 1260-ACS — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Adapter, pipe extension and base.
REFLECTOR	Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 44 pounds.
APPROX. SHPG. WT.	Without pipe, 86 pounds.

Type 1260-ICS — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting.
MOUNTING	Adapter, pipe extension and base.
REFLECTOR	Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 62 pounds.
APPROX. SHPG. WT.	Without pipe, 104 pounds.

Type 1260-AGS — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Adapter, pipe extension and base.
REFLECTOR	Pyle-National NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 47 pounds.
APPROX. SHPG. WT.	Without pipe, 90 pounds.

Type 1260-IGS — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting.
MOUNTING	Adapter, pipe extension and base.
REFLECTOR	Pyle-National NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 65 pounds.
APPROX. SHPG. WT.	Without pipe, 108 pounds.

The 1445 Series

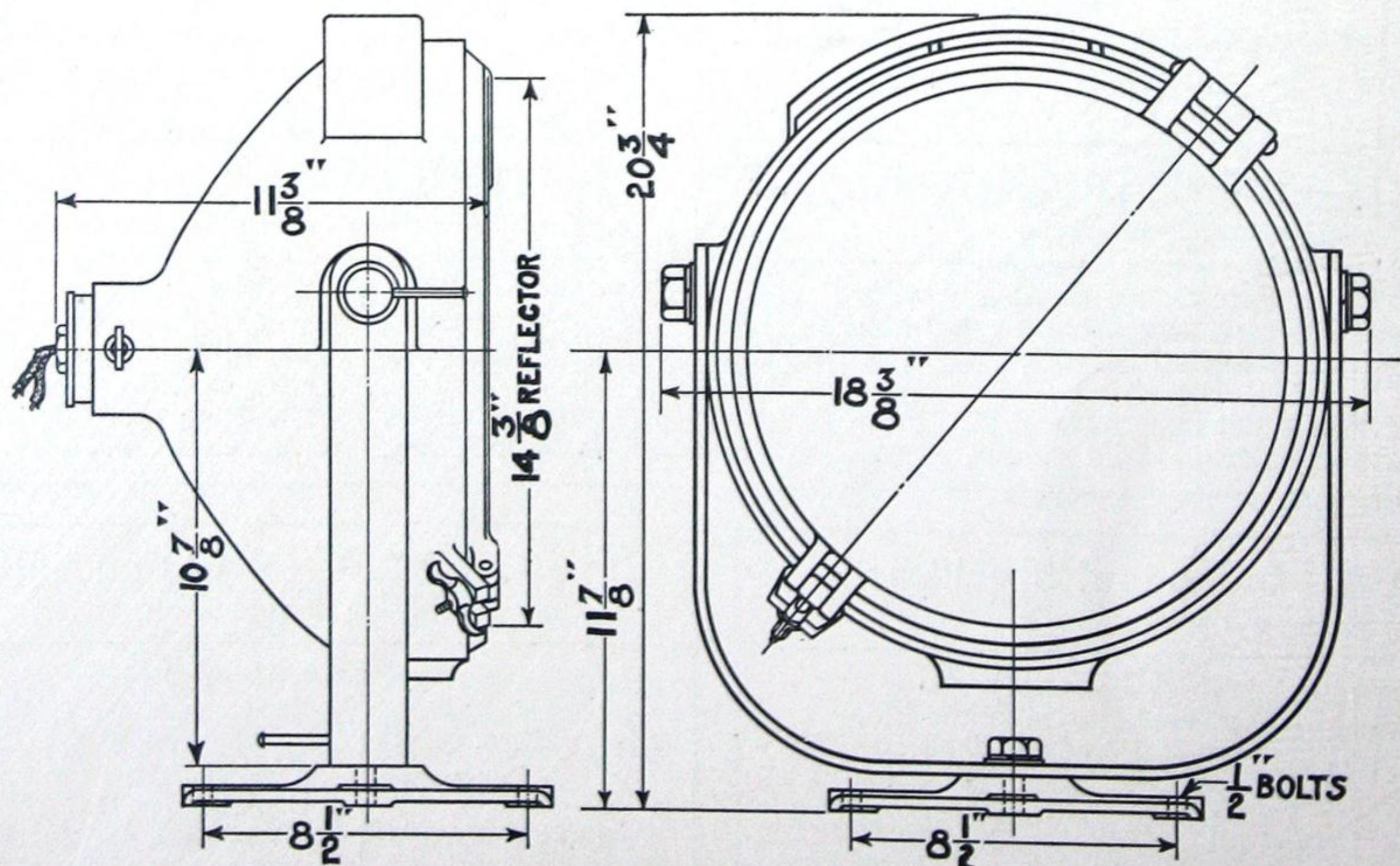
THE design of the 1445 projector is based on the use of the G-40, 500-watt flood-lighting lamp which is a standard product and readily obtainable.

A variety of types and arrangements of the basic design are offered to meet the requirements of all classes of flood-lighting work. A convenient mounting and light distribution combination may easily be selected from the types shown, the Circular or Rectangular Dispersion lenses being furnished on order (See Lens Data, Pages 6 and 3, Chart No. 3). A far-reaching beam (1,500 to 2,000 feet) or a wide-spread flood of light thus is within the capacity of this projector.

The "General Specifications" cover all data common to the several types listed while points applicable to the projectors separately are indicated under "Individual Specifications." Together they give the key to detailed information concerning any of the standard types.



Types 1445-AC, AG, IC and IG



Dimensions

PRICES ON APPLICATION

1445 Series — General Specifications

<i>Focusing Device</i>	Aluminum-alloy casting.
<i>Front Glass and Lenses</i>	Standard clear wire glass. (See Lens Data, Pages 6 and 3.)
<i>Lamp Receptacle</i>	Porcelain body. Mogul socket.
<i>Lamps</i>	Mazda "C"-G-40 or G-30, 500 or 250 watts. (See Lamp List, Page 4.)
<i>Leads</i>	Two No. 14 extra-flexible weather-proof wires.
<i>Capacity</i>	(See Data Sheet on Page 3.)
<i>Finish</i>	Battle-ship gray, or black enamel.
<i>Dimensions</i>	(See dimension sketches.)

Individual Specifications below, cover types shown on Page 16.

Type 1445-AC — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Forged suspension bracket. Malleable iron base.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	38 pounds.
APPROX. SHPG. WT.	73 pounds.

Type 1445-IG — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting. First quality.
MOUNTING	Forged suspension bracket. Malleable iron base.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	67 pounds.
APPROX. SHPG. WT.	100 pounds.

Type 1445-AG — Individual Specifications

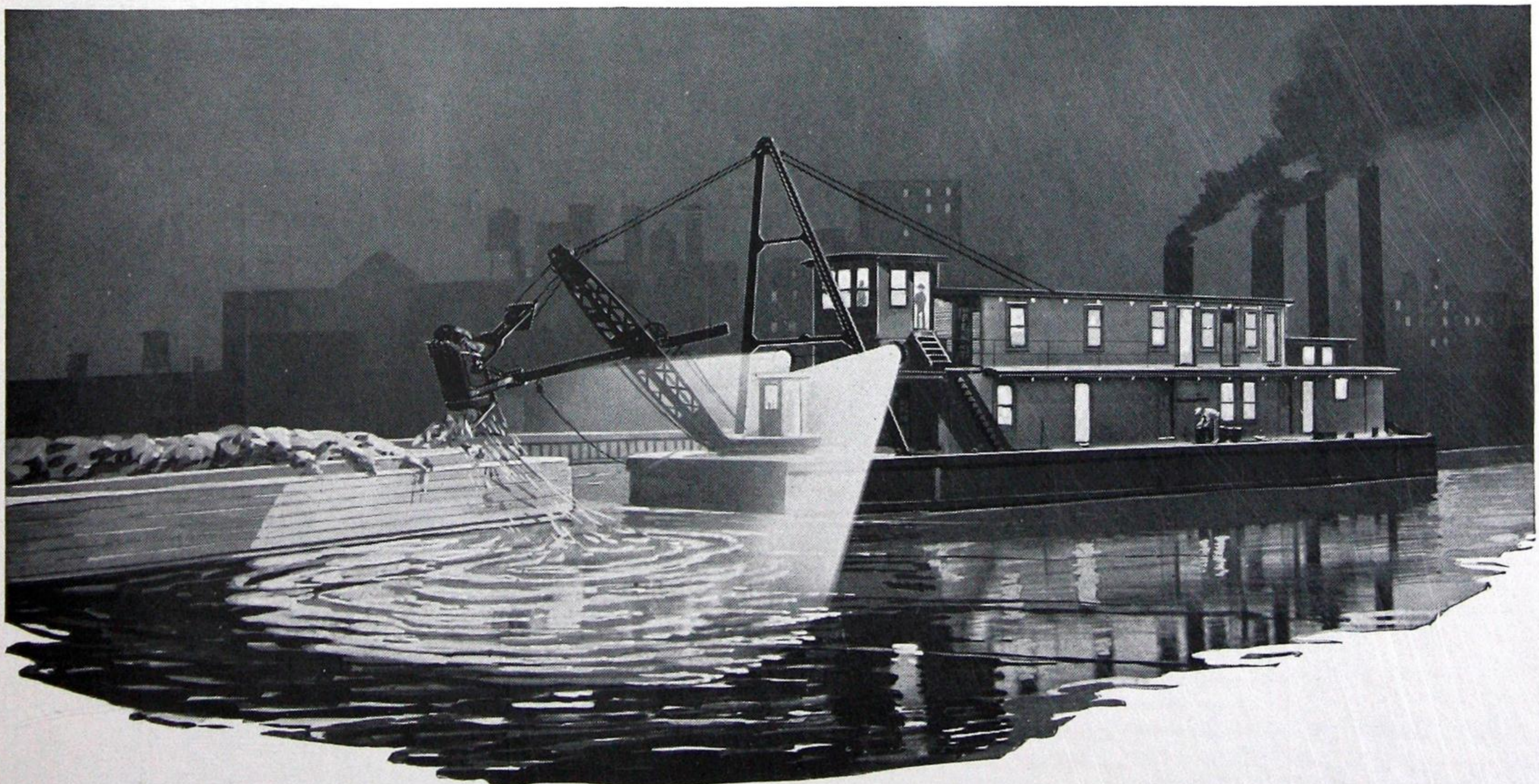
(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Forged suspension bracket. Malleable iron base.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	43 pounds.
APPROX. SHPG. WT.	78 pounds.

Type 1445-IC — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting. First quality.
MOUNTING	Forged suspension bracket. Malleable iron base.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	62 pounds.
APPROX. SHPG. WT.	100 pounds.



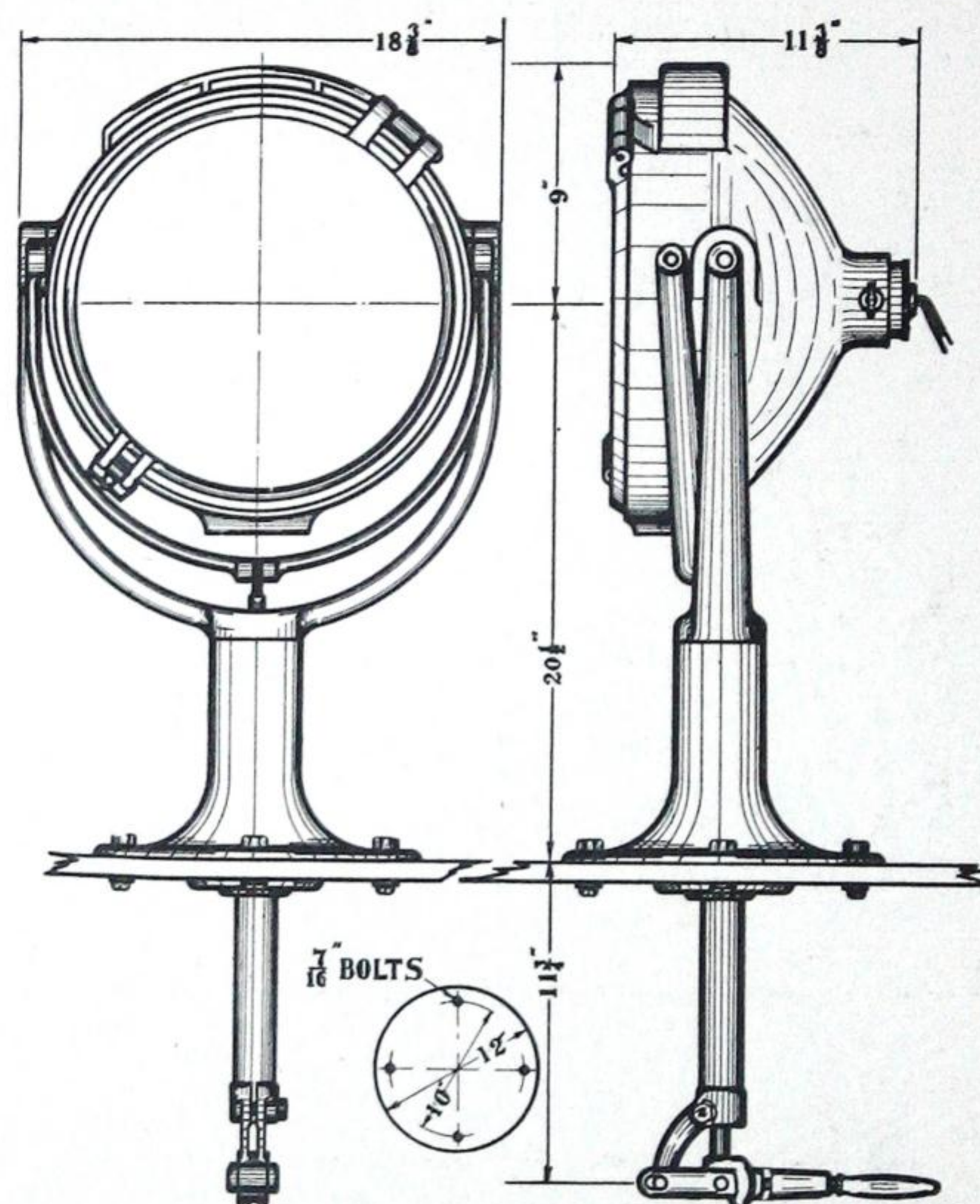
Dredge Lighting by Pyle-National Turbo-Generators (See Page 24) and Pyle-O-Lytes

PRICES ON APPLICATION

The 1445 Series

Types 1445-ACC and AGC

BECAUSE of the beam projection capacity of the 1445 projector it is an especially suitable design for use as an incandescent searchlight and with this purpose in view the types shown and described on this page have been developed. All manner of marine uses are open to these efficient searchlights and they are suitable in any class of work requiring a powerful beam which must be subject to the operators convenient control at all times. The control column has a standard length of $11\frac{3}{4}$ " inches from base to handle but this may be varied if the desired length is specified in ordering. A nominal charge per foot is added to the net price to cover material and labor involved in change.



Dimensions
Types 1445-ACC and AGC Pyle-O-Lyte
with Pilot House Control

1445 Series — General Specifications

<i>Focusing Device</i>	Aluminum-alloy casting.
<i>Front Glass and Lenses</i>	Standard clear wire glass. (See Lens Data, Pages 6 and 3.)
<i>Lamp Receptacle</i>	Porcelain body. Mogul socket.
<i>Lamps</i>	Mazda "C"-G-40 or G-30, 500 or 250 watts. (See Lamp List, Page 4.)
<i>Leads</i>	Two No. 14 extra-flexible weather-proof wires.
<i>Capacity</i>	(See Data Sheet on Page 3.)
<i>Finish</i>	Battle-ship gray, or black enamel.
<i>Dimensions</i>	(See Dimension sketches.)

Type 1445-ACC — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Universal pilot-house control attachment.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	50 pounds.
APPROX. SPHG. WT.	100 pounds.

Type 1445-AGC — Individual Specifications

(Note General Specifications)

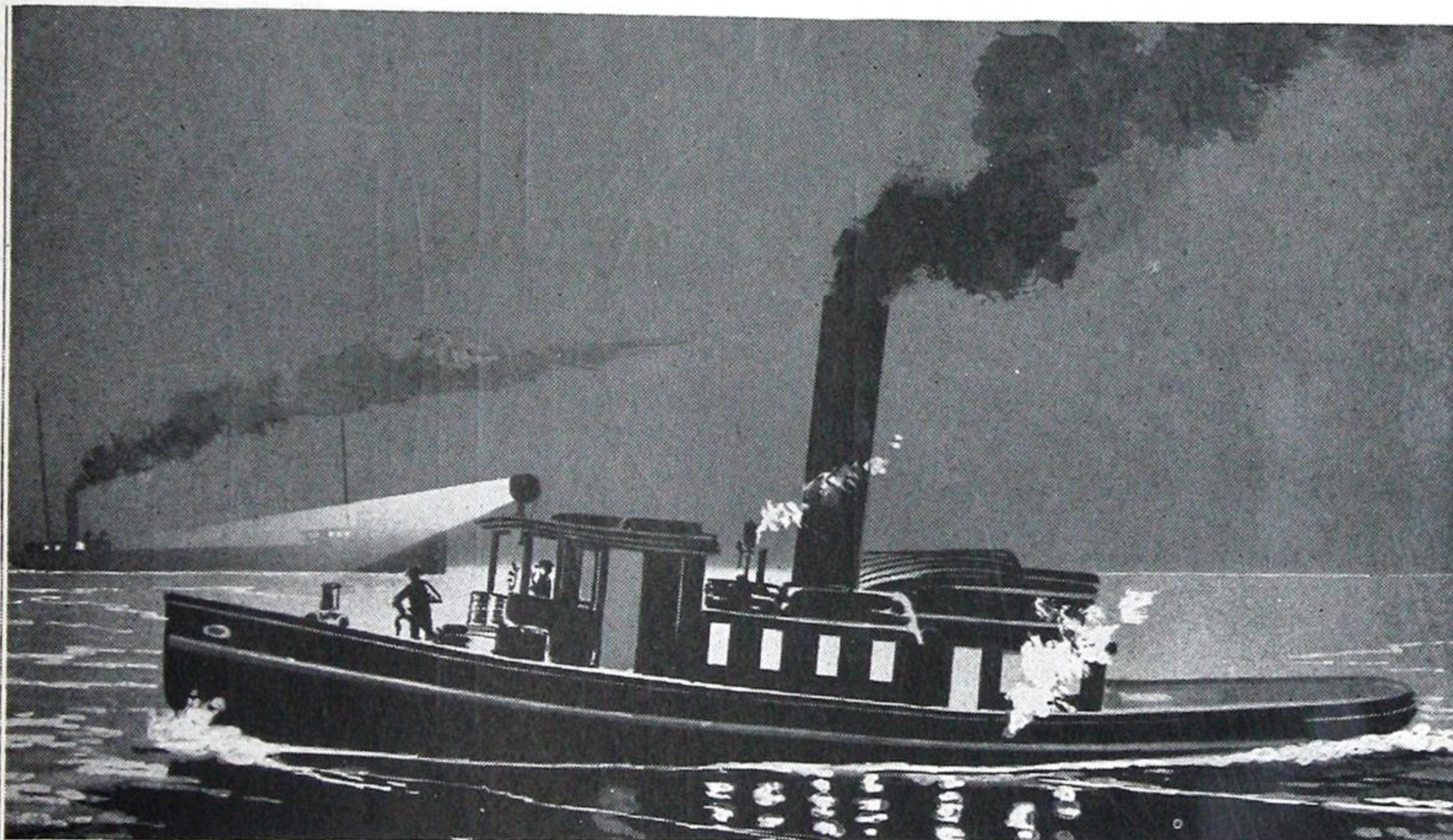
BODY	Aluminum-alloy casting.
MOUNTING	Universal pilot-house control attachment.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	55 pounds.
APPROX. SHPG. WT.	105 pounds.

PRICES ON APPLICATION

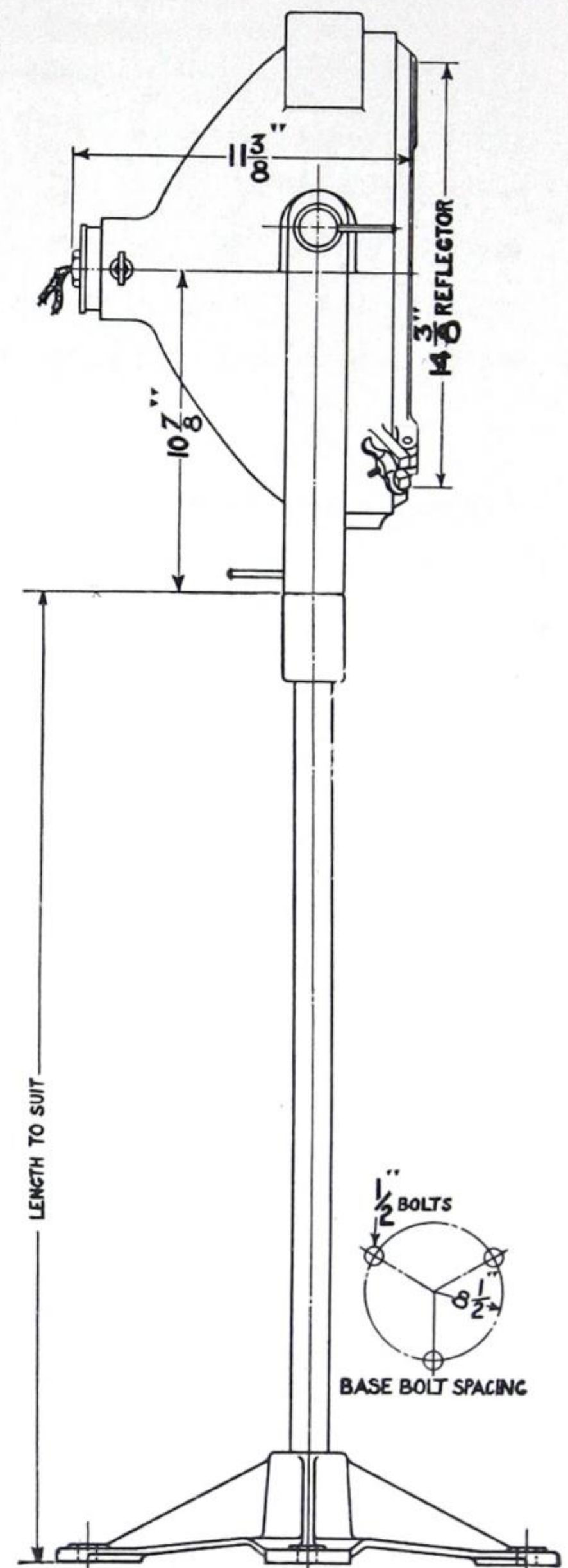
The 1445 Series

Types 1445-ACS, AGS, IGS and ICS

THE 1445 projector is furnished as shown and described on this page, with the standard pipe extension and base mounting thereby fitting it for use wherever a unit of this type and capacity is required for permanent or temporary work. Either the Circular or Rectangular Dispersion Lenses may be used with this design (See Lens Data, Pages 6 and 3, Chart No. 3), and wide-spread diffusion at high intensity is possible. However, if a beam of light is desired the standard clear glass and 500-watt lamp in focus will protect the rays to a distance of from 1,500 to 2,000 feet. Pipe is not furnished with the types shown unless length is specified in ordering when a nominal charge per foot will be added to the net price to cover cost and cutting of one-inch galvanized pipe.



Tug-boat Lighting with Pyle-National Turbo-generators and Pyle-O-Lytes



Types 1445-ACS, AGS, IGS and ICS
Dimensions

Type 1445-ACS — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Cast-iron base tapped for one-inch pipe extension.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 52 pounds.
APPROX. SHPG. WT.	Without pipe, 87 pounds.

Type 1445-IGS — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting. First quality.
MOUNTING	Cast-iron base tapped for one-inch pipe extension.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 81 pounds.
APPROX. SHPG. WT.	Without pipe, 114 pounds.

Type 1445-AGS — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Cast-iron base tapped for one-inch pipe extension.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 57 pounds.
APPROX. SHPG. WT.	Without pipe, 92 pounds.

Type 1445-ICS — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting. First quality.
MOUNTING	Cast-iron base tapped for one-inch pipe extension.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 76 pounds.
APPROX. SHPG. WT.	Without pipe, 114 pounds.

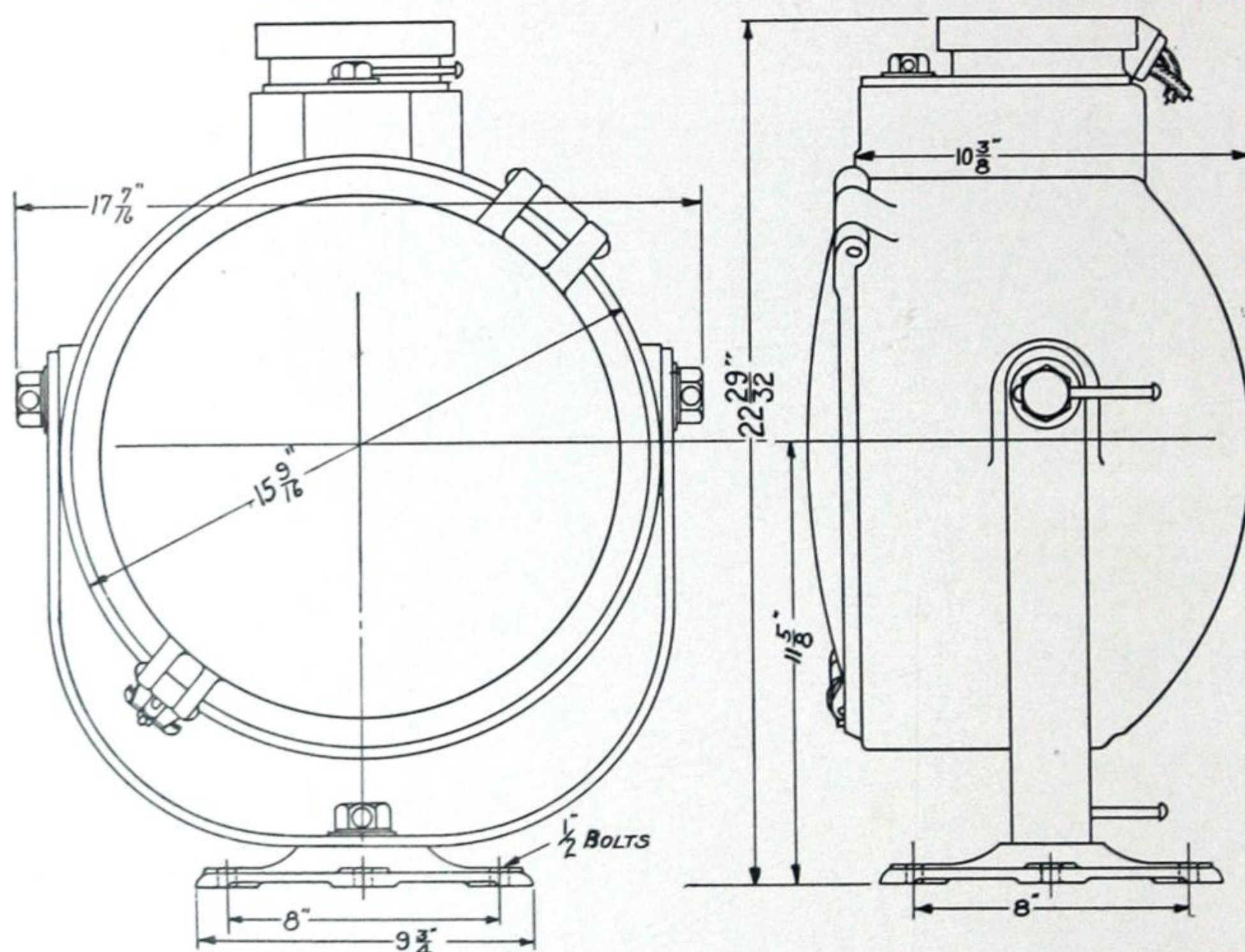
The 1460 Series

THE 1460 design is intended for the use of the larger sizes of standard PS lamps up to 1,500 watts. They have ample ventilation facilities which, coupled with the guaranteed reflectors manufactured by The Pyle-National Company, gives assurance of long reflector and lamp life. The arrangement is in all essentials similar to the 1260 Series except in size and they will be found very efficient in the illumination of large, open areas and all classes of work requiring permanently good projectors. They may be had equipped with Pyle-National Circular or Rectangular Dispersion Lenses (See Pages 6 and 3, Chart No. 4), either of which will produce a wide angled flood of light at uniform intensity.

Refer to the "General Specifications" for characteristics common to all 1460 types and to "Individual Specifications" for data relative to the projectors separately.



Types 1460-AC, AG, IC and IG



Dimensions

Type 1460-AC—Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	40 pounds.
APPROX. SHPG. WT.	78 pounds.

Type 1460-IG — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting. First quality.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	69 pounds.
APPROX. SHPG. WT.	108 pounds.

Type 1460-AG — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	44 pounds.
APPROX. SHPG. WT.	81 pounds.

Type 1460-IC — Individual Specifications

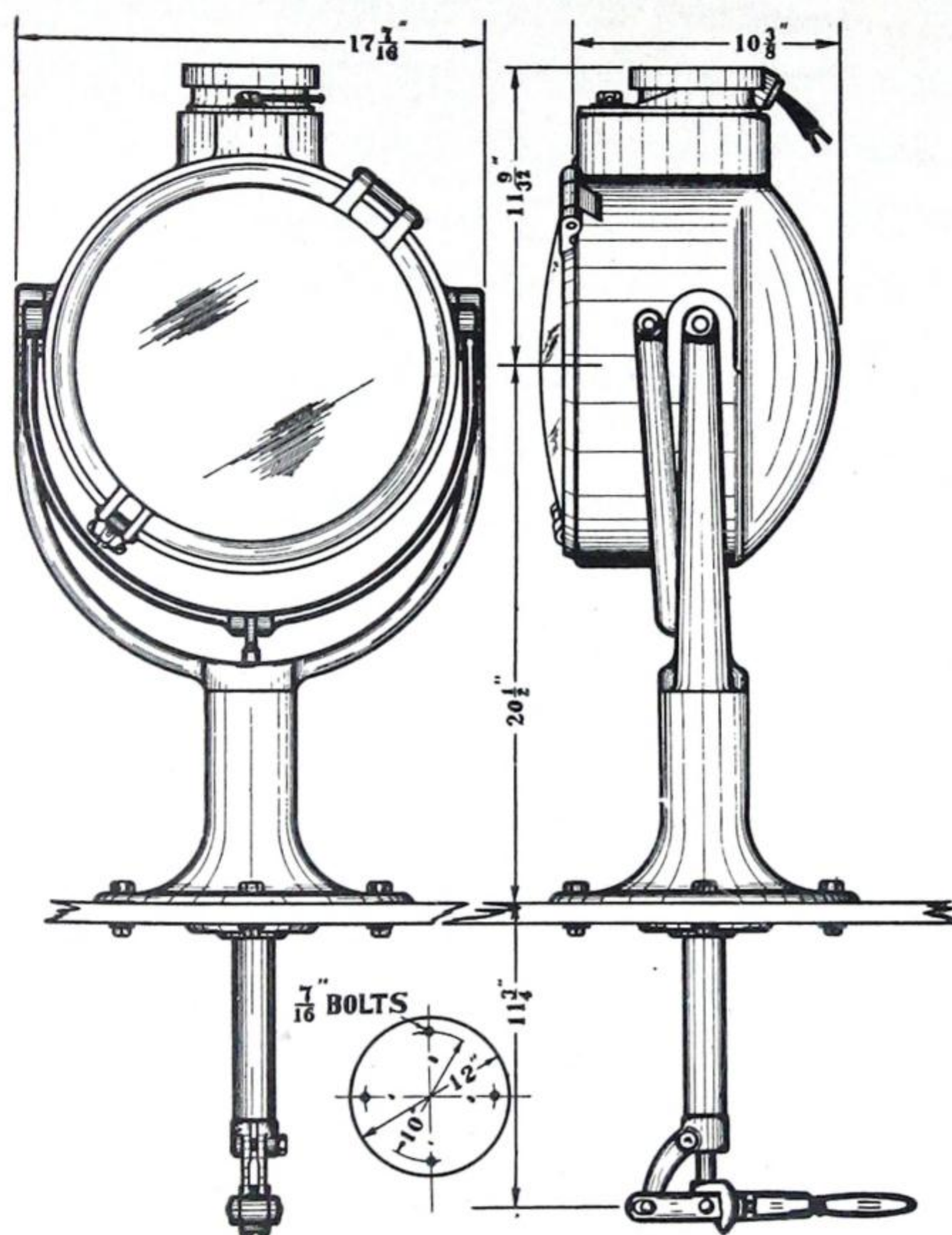
(Note General Specifications)

BODY	Gray-iron casting. First quality.
MOUNTING	Forged suspension bracket. Malleable base.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	65 pounds.
APPROX. SHPG. WT.	105 pounds.

The 1460 Series

Types 1460-ACC and 1460-AGC

APPPLICATION of the 1460 Pyle-O-Lyte to uses requiring a pilot-house control is con-
venieniced by the addition to the standard body and mounting of the control arrangement
shown and described on this page. These types are recommended to those users who prefer the
standard "PS" bulb to the "G" bulb and who require a diffused rather than a concentrated
light. The control column may be had in lengths other than the $11\frac{3}{4}$ " standard, increases
being covered by a nominal charge per foot added to the net price.



Dimensions
Types 1460-ACC and AGC Pyle-O-Lyte
with Pilot-house Control

1460 Series — General Specifications

<i>Focusing and Ventilating Cap</i>	Cast aluminum-alloy.
<i>Front Glass and Lenses</i>	(See Lens Data, Pages 6 and 3.)
<i>Standard Lamp Receptacle</i>	Porcelain body. Mogul screw base.
<i>Standard Leads</i>	Two No. 14 extra-flexible weather-proof wires.
<i>Lamps</i>	Mazda "C," PS-40 and 52, 500 to 1,500 watts. (See Lamp List, Page 4.)
<i>Capacity</i>	(See Data Sheet, Page 3.)
<i>Finish</i>	Battle-ship gray, or black enamel.
<i>Dimensions</i>	(See sketches accompanying specifications.)

Type 1460-ACC — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Universal pilot-house control.
REFLECTOR	14-inch Silver-plated copper. (See Re- flector List, Page 5.)
APPROX. NET WT.	52 pounds.
APPROX. SHPG. WT.	80 pounds.

Type 1460-AGC — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
MOUNTING	Universal pilot-house control.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	56 pounds.
APPROX. SHPG. WT.	83 pounds.

PRICES ON APPLICATION

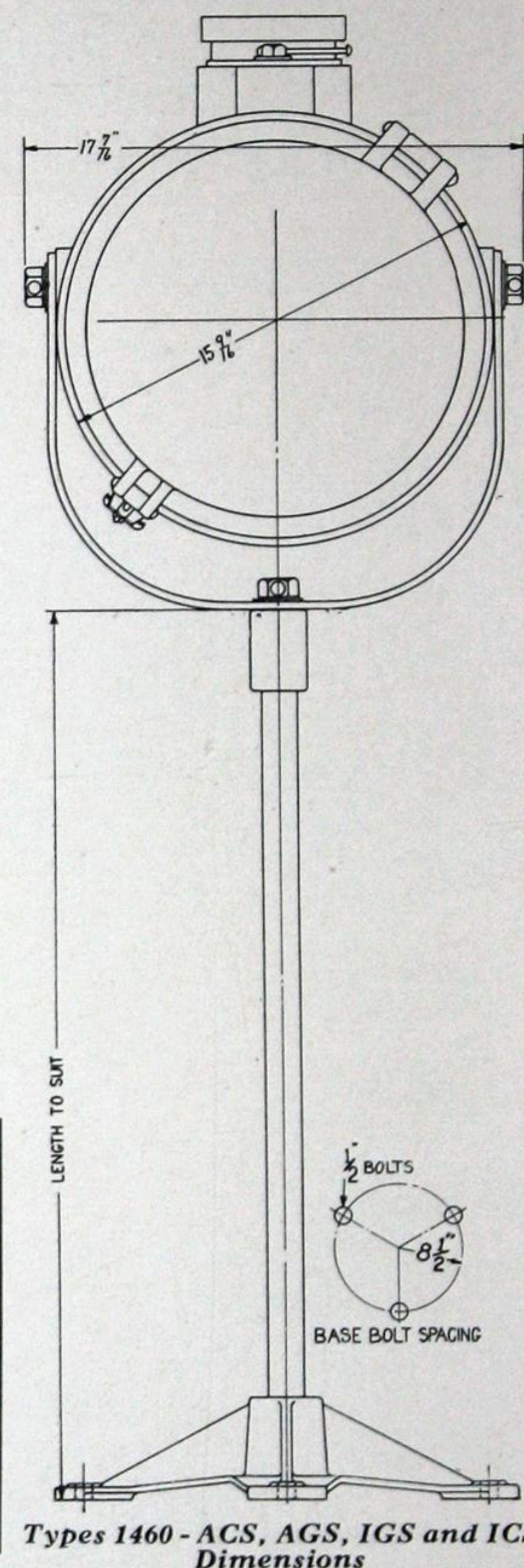
The 1460 Series

Types 1460-ACS, AGS, IGS and ICS

IN keeping with similar practice on the other designs and sizes of Pyle-O-Lytes, the 1460 projector is here shown with pipe extension and base mounting, four body and reflector combinations being used with the one mounting design. They fulfill the same purpose as the smaller projector similarly equipped but, of course, have much greater capacity. They may be fitted with either the Pyle-National Circular or Rectangular Dispersion Lenses (see Lens List, Pages 6 and 3, Chart No. 4), and when so fitted they are capable of covering with an even intensity of light, an area, equal illumination of which would require two or three projectors unassisted by dispersion lenses. Pipe is not furnished with these types unless length is specified in ordering when a nominal charge per foot will be added to the net price to cover cost of galvanized pipe and cutting of same.

As compared with the 1445-ACS projector shown on page 19, this type is recommended to those who prefer the use of high wattage, standard "PS" bulbs and desire maximum diffusion of the light.

This style of mounting for the 1460 projector, as well as for the other types, shown on pages 11, 15 and 19, is especially recommended to contractors and construction men as being of great utility about building operations. The light is always needed and the right location for it is easily and quickly arranged.



1460 Series — General Specifications

<i>Focusing and Ventilating Cap</i>	Cast aluminum-alloy.
<i>Front Glass and Lenses</i>	(See Lens Data, Pages 6 and 3.)
<i>Standard Lamp Receptacle</i>	Porcelain body. Mogul screw base.
<i>Standard Leads</i>	Two No. 14 extra-flexible weather-proof wires.
<i>Lamps</i>	Mazda "C," PS-40 and 52, 500 to 1,500 watts. (See Lamp List, Page 4.)
<i>Capacity</i>	(See Data Sheet, Page 3.)
<i>Finish</i>	Battle-ship gray, or black enamel.
<i>Dimensions</i>	(See sketches accompanying specifications.)

Type 1460-ACS — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 54 pounds.
APPROX. SHPG. WT.	Without pipe, 101 pounds.

Type 1460-IGS — Individual Specifications

(Note General Specifications)

BODY	Gray-iron casting. First quality.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 84, pounds.
APPROX. SHPG. WT.	Without pipe, 126 pounds.

Type 1460-AGS — Individual Specifications

(Note General Specifications)

BODY	Aluminum-alloy casting.
REFLECTOR	14-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 58 pounds.
APPROX. SHPG. WT.	Without pipe, 106 pounds.

Type 1460-ICS — Individual Specifications

(Note General Specifications)

BODY	Gray-iron castings. First quality.
REFLECTOR	14-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	Without pipe, 79 pounds.
APPROX. SHPG. WT.	Without pipe, 121 pounds.

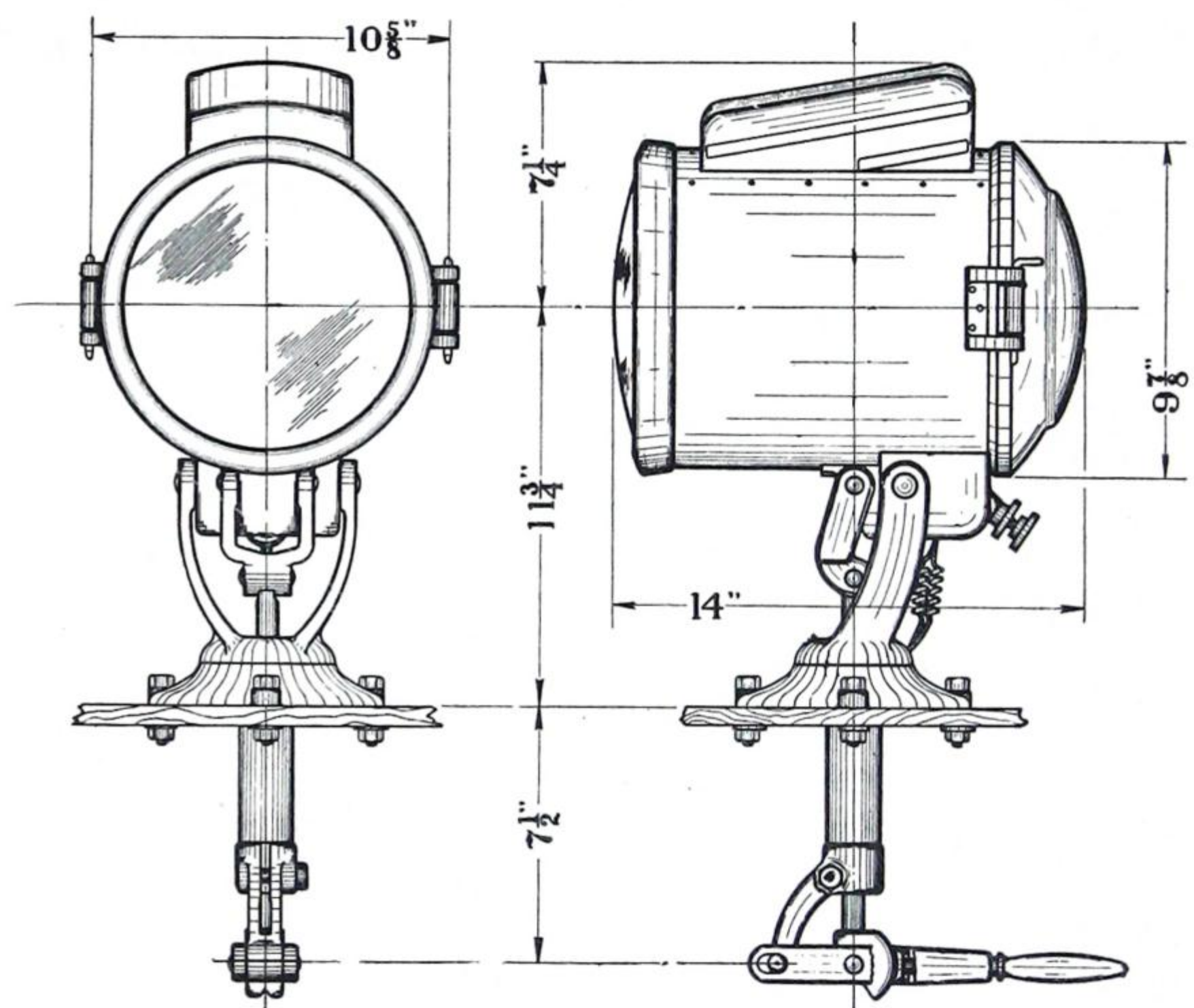
The 900 Series

A VERY efficient projection lamp has been developed in the tubular shape bulb and use is made of these standard incandescent lamps in the small searchlights shown on this page. The lamps are listed in the Lamp List on page 4 in the voltages and capacities which are carried as standard stock by the lamp works. The 900 projector design is based upon marine practice but may be conveniently used wherever a small searchlight with pilot-house control is required. The body of sheet brass with cast bronze fittings may be had with either polished or black enameled finish. The control column is furnished in a standard length of $7\frac{1}{2}$ inches from base to handle but if desired length is specified in ordering a nominal charge covering the difference in material will be added to the net price.

Sliding electrical contact is made in the base of these units making a neat and weather-proof wiring job possible. Lamps and reflector are easily accessible through tightly joined doors.



Type 900-BGC



Dimensions

Type 900-BGC—Specifications

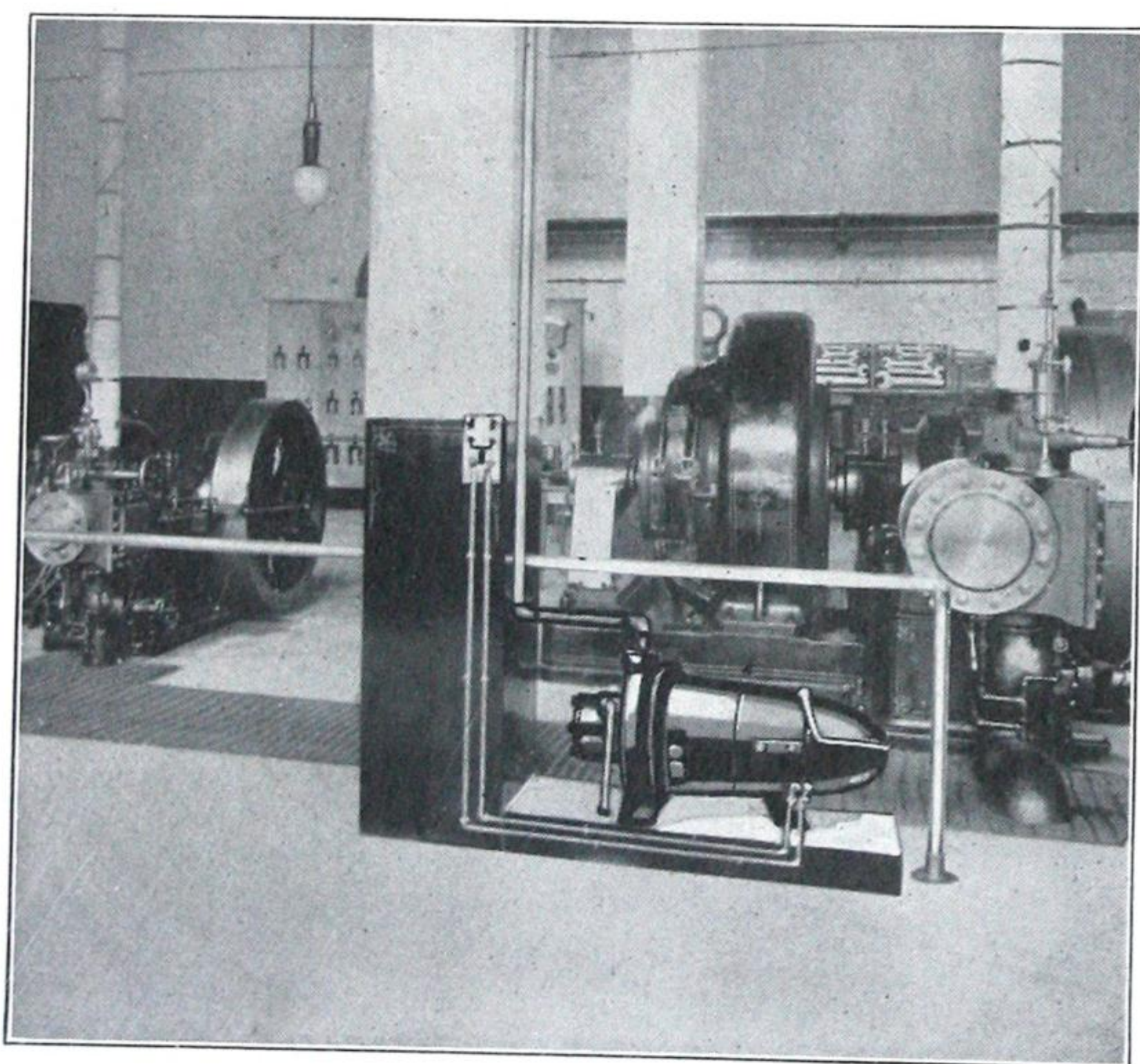
Body	Heavy sheet brass. Bronze fittings.
Focusing Device	Micrometer type with locking device.
Mounting	Pilot-house control, lever type. Full swivel base.
Reflector	9-inch Crystal glass mangin mirror.
Leads	Two No. 14 extra-flexible weather-proof wires. Automatic contact in base.
Lamp Receptacle	Metal covered porcelain body. Medium screw socket with lamp grips, unless Mogul is ordered.
Lamps	Mazda "C," "T" bulbs, 250 to 1,000 watts. (See Lamp List, Page 4.)
Capacity	Spot beam—2,000 feet pickup distance.
Finishes	Enameled black or battleship gray or highly polished all over and lacquered.
Dimensions	(See sketches accompanying specifications.)
Approximate Net Weight	48 pounds.
Approximate Shipping Weight	90 pounds.

Pyle-National Turbo-Generators

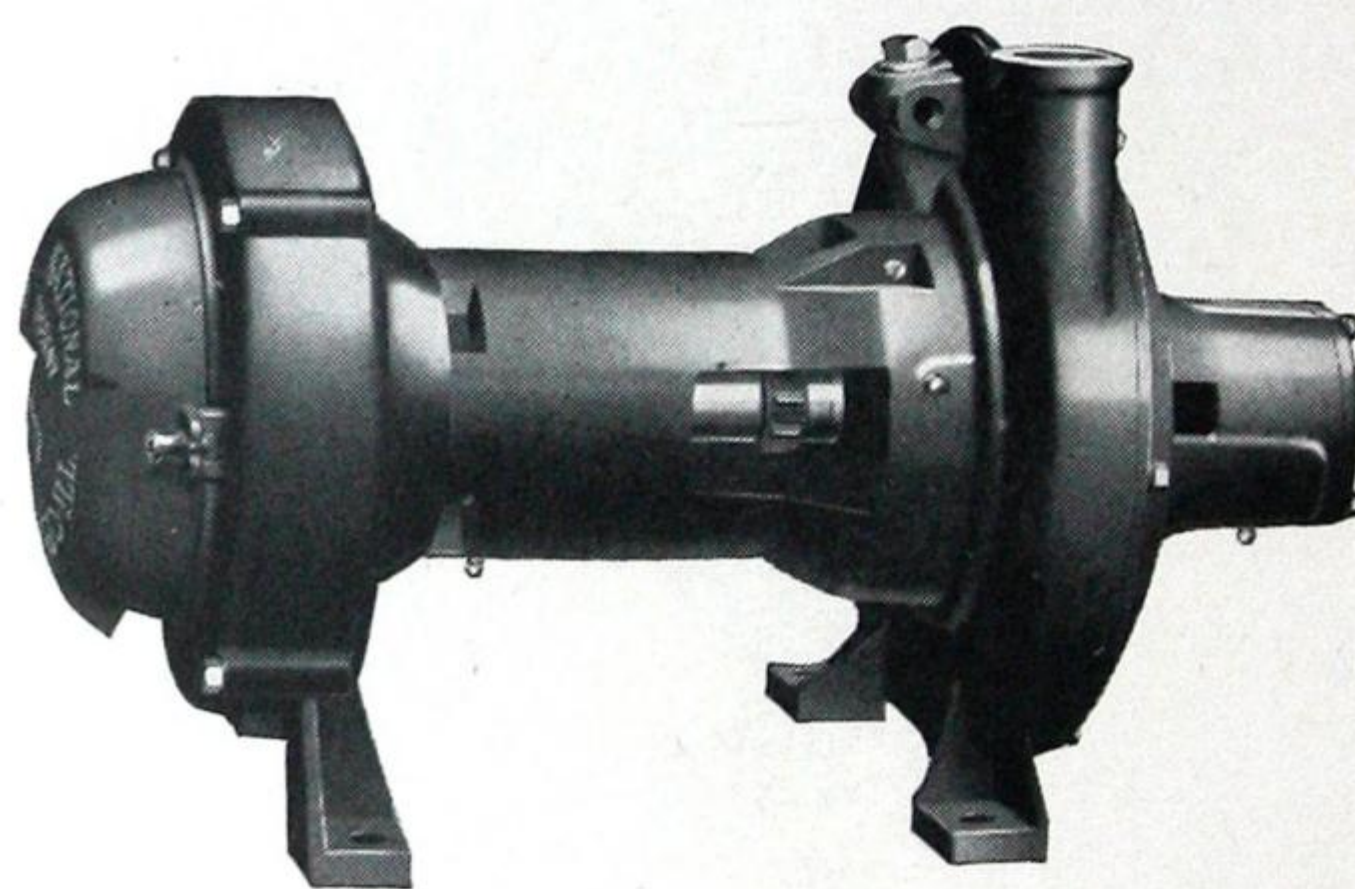
THE types "E" and "M" turbo-generators shown on this page are two of a complete line of machines, ranging in capacity from 500 watts to $7\frac{1}{2}$ Kilowatts and in voltage from 32 to 220. Seven distinct types and sizes may be had to suit various requirements. Nozzle and governor valve combinations are furnished to deliver the full output on steam pressures from 70 pounds upwards. No expensive switch boards with rheostats or other separate regulating devices are needed in the installation of these plants as the voltage is closely controlled by the most dependable type of automatic governor. Adjustments, though seldom needed, are easily made and no special knowledge or experience is necessary for their maintenance.

In ordering a machine it is only necessary to advise us of the load it will be required to pull, the voltage desired and the steam pressure available in pounds per square inch. In some cases where a large machine is to be used on a small boiler the steam supply must also be considered but because of the economy of these turbines such a case should not often occur.

Close to 100,000 of our turbo-generators have been sold in various fields and 90% of the locomotives in the world using electric headlights are Pyle-National equipped.



Type "M" Turbo-Generator as Auxiliary in Power Plant



Type "E" Turbo-Generator

"E" Turbo-Generator—Specifications

Capacity.....	1,500 watts	Width.....	16½ in.
Voltage.....	32-220	Length.....	30 in.
Height.....	18½ in.	Net Wt.....	275 lbs.

Some of the uses for these machines are listed below:

FLOODLIGHTING

Auxiliary Lighting
Battery Charging
Clam Shells
Coal Handlers
Contractors; Dredges
Cotton Gins
Dairy Machinery
Discharging Explosives
Ditchers
Drag Line Excavators
Electric Welding

Electrolysis
Flow Motors
Gyroscope Compass
Harbor Craft
Laboratories
Lifting Magnets
Locomotive and Train Lighting
Locomotive Cranes
Locomotive Headlights
Logging Locomotives

Lumber and Logging
Camps
McMyers
Mining Operations
Oil Wells
Ore Handlers
Passenger Craft
Public Works
Quarries
River Craft
Rock Drills

Saw Mills
Steam Shovels
Steam Strippers
Steam Tugs
Steam Tractors
Steam Wreckers
Steel Mills
Sugar Industries
Train Signals
Well Drills

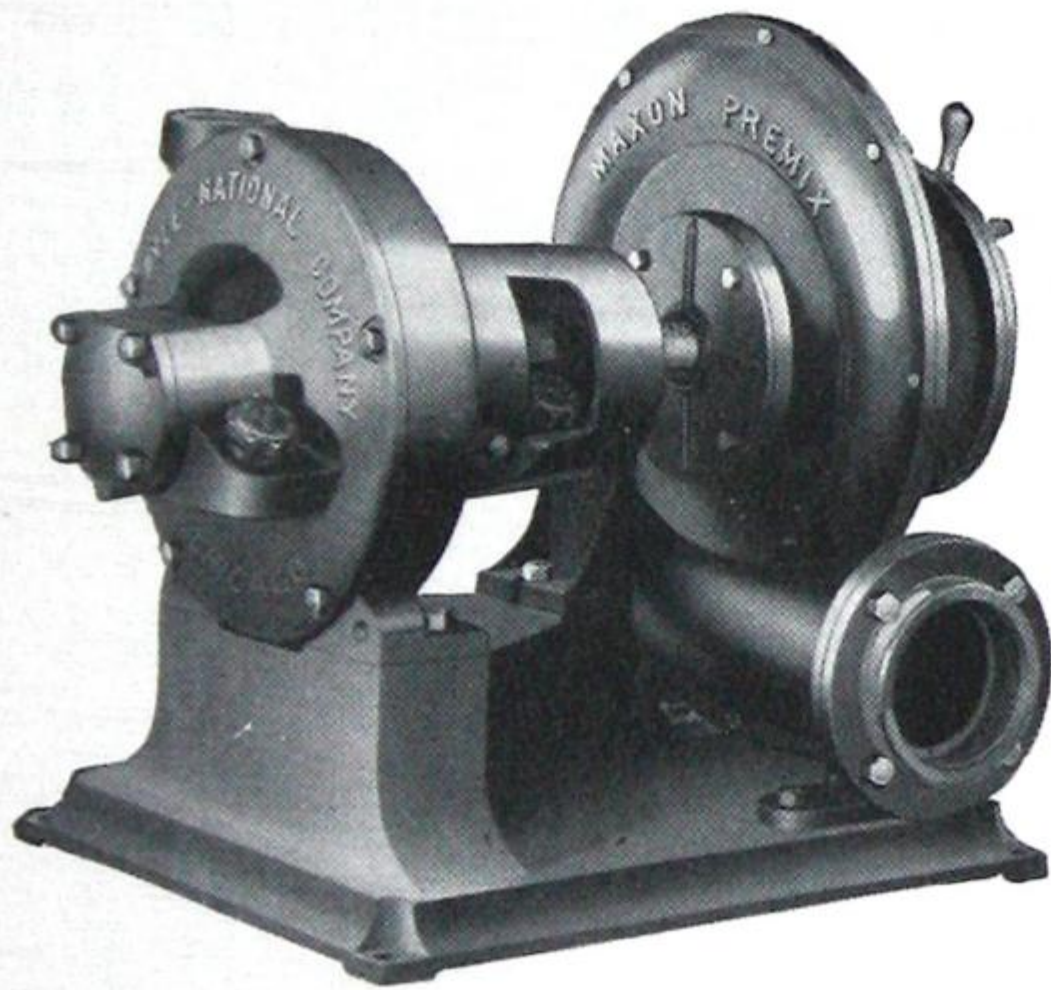
For information pertaining to turbo-generators, head-lights and accessories our No. 101 Catalogue will be sent on request. Booklets describing each turbo-generator unit are also available.

PRICES ON APPLICATION

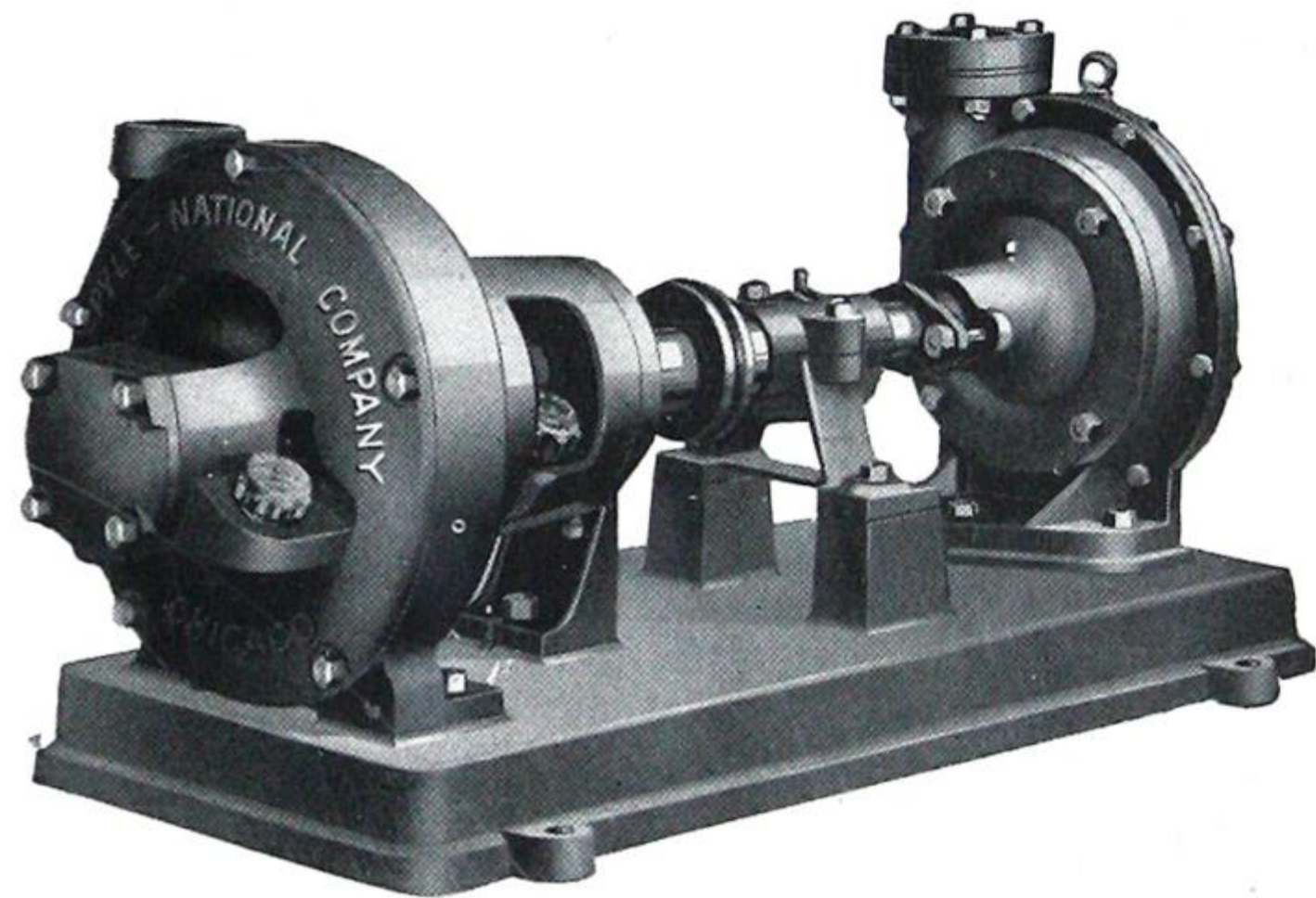
Pyle-National Steam Turbines

SMALL steam turbines satisfy a distinct and growing need in the power requirements of modern industry and, because of their adaptability to the varying conditions imposed by industrial users, Pyle-National Steam Turbines lead in numbers used as well as in the success of their operation during the past twenty-six years. Their development has reached a high stage in the field of locomotive head-lighting and train lighting but as many uses are open to them for separate power units as have been made of the turbo-generator combinations. A few of the practicable uses are listed below but familiarity with the nature of the machines and their capacities will render their applicability to your own particular use self-suggestive.

Pyle-National Steam Turbines may be had in capacities ranging from $\frac{1}{2}$ to $12\frac{1}{2}$ horse power, speeds from 2,000 to 5,000 R.P.M. operating on steam pressures of 40 pounds and upward. Speed regulation is positively and accurately accomplished, with any working steam pressure, by the most dependable type of automatic governor. Compressed air may be used where it is available but not in preference to steam, as there is some loss of efficiency with compressed air.



"E-2" Turbine Connected to Blower



"E-2" Turbine Connected to Pump

A few of the many advantages to which Pyle-National Steam Turbines owe their widespread use and acknowledged success follow:

- | | |
|---|---|
| Scientific Design throughout | Extreme Simplicity with few parts |
| Rugged Construction | Exacting Standardization of Materials and Parts |
| Accurate Fabrication | Thorough Inspection of Each Part |
| Careful Assembling | Rigid Testing of Every Turbine |
| Expert and Conscientious Service to the Customer. | |

Industrial Applications of the Small Turbine

IMPERATIVE where fire and explosion risk from chemicals, gasoline, dust, oil or gases make other power units unsafe.

Very flexible and adaptable where only compressed air or steam is available for power. Economical where waste heat is to be had for steam generation and where exhaust heat from the turbine may be utilized.

Pumps, Exhaust Fans, Blowers, Abrasive Wheels, Small Machinery and Agitators are among the present uses for them.

Write us your requirements and let us acquaint you with the possibilities of the small turbine as a power unit. Engineering data and service may be had on request.

PRICES ON APPLICATION

SUPPLEMENTARY SHEET

The 1045 Series

(See Pages 8 to 11)

Types 1045-ACB and AGB

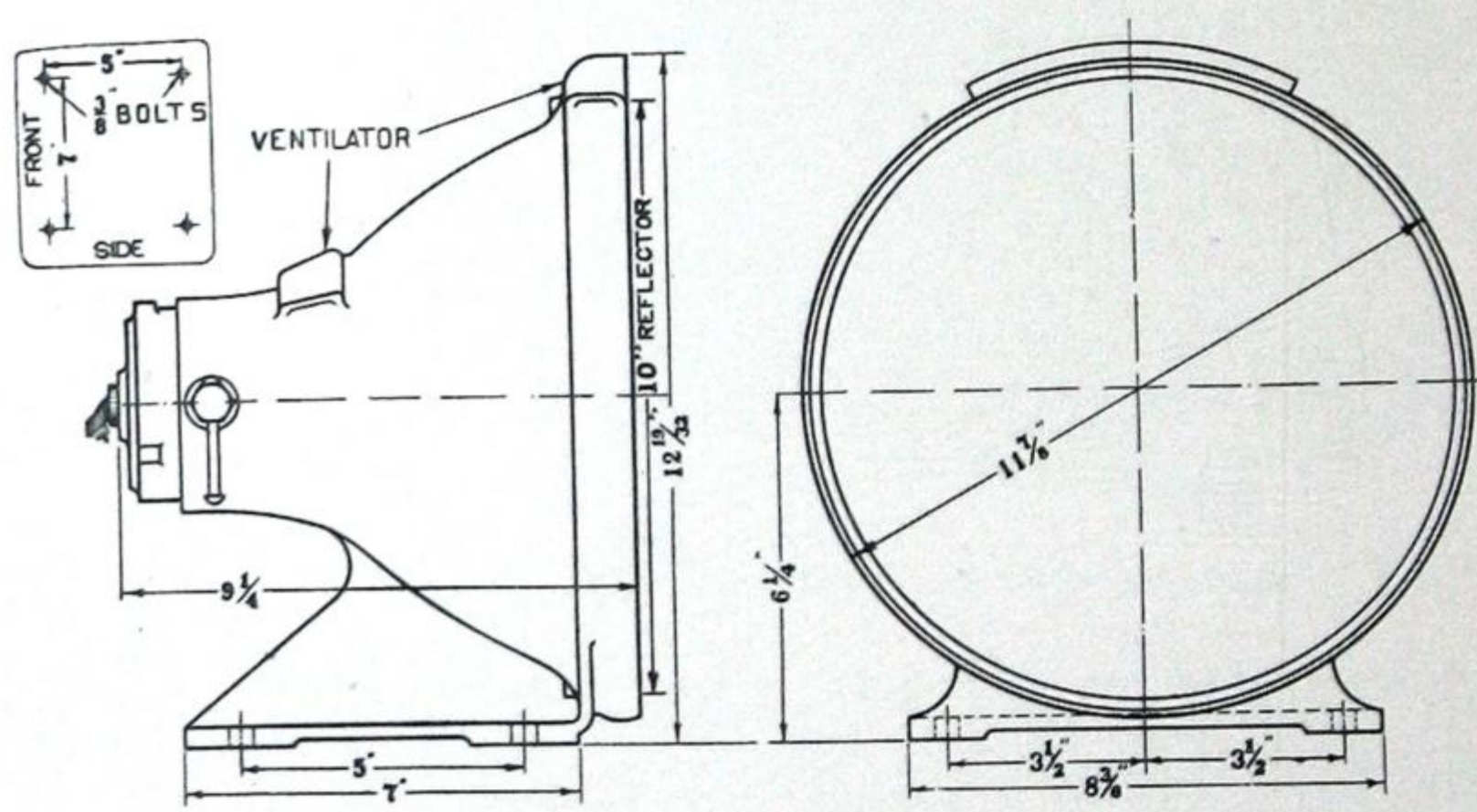
THESE types represent an adaptation of the standard 1045 Pyle-O-Lyte body and reflector to industrial head-lighting purposes by means of a base plate which is cast integral with the projector body. In this form an ideal combination of the qualities required of a stationary projector or head-lighting unit is obtained. With the lamp in focus a beam having a "pick-up" capacity of 700 feet and over is obtained while for short distance work, such as inside a plant yard, subdued light with no glare may be had by the use of Pyle-National dimming devices or the Circular Divergence Lens (see pages 6 and 3, Chart No. 1). The NONGLARE glass reflector is especially recommended for use with these projectors. The cast aluminum-alloy bodies and bases render them capable of withstanding years of rough usage, heat, gas and weather without deterioration.

Steel plants, mines, quarries, contractors and in fact all users of industrial locomotives, cranes, shovels and the like will find these headlights incomparably superior to the old sheet metal cases just as electric lighting of such equipment by Pyle-National turbo-generators has been found more economical and satisfactory than oil-lighting.

In case an adjustable projector is found more advantageous for such machines as cranes, shovels, drag lines, hoists, etc., the 1045 types on pages 8 to 11 are recommended.



Types 1045-ACB and AGB



Dimensions

1045 Series — General Specifications

Body	Aluminum-alloy casting.
Focusing Tube	Aluminum-alloy casting.
Front Glass and Lenses	(See Lens Data, Pages 6 and 3.)
Standard Leads	Two No. 14 extra-flexible weather-proof wires.
Standard Lamp Receptacle	Porcelain body. Medium screw-socket with lamp grip.
Lamps	Mazda "C"—G bulbs—100 to 250 watts. (See Lamp List, Page 4.)
Capacity	(See Data Sheet on Page 3, Chart No. 1.)
Finish	Battle-ship gray, or black enamel.
Dimensions	(See sketches accompanying specifications.)

Type 1045 ACB — Individual Specifications

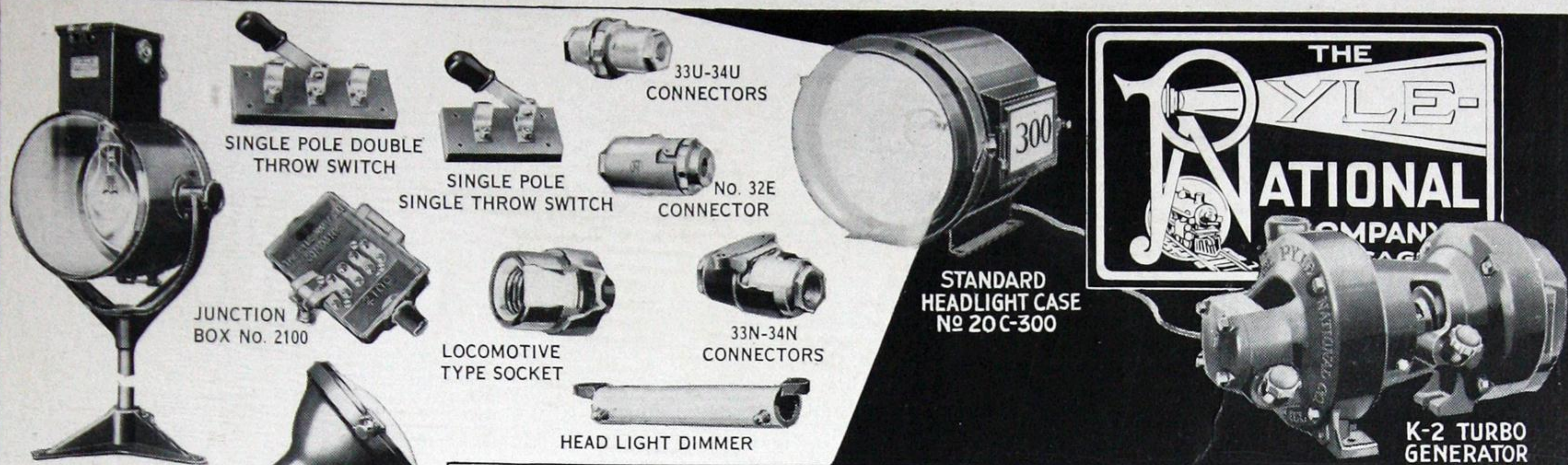
(Note General Specifications)

MOUNTING	Aluminum-alloy base cast integral with the projector body.
REFLECTOR	10-inch Silver-plated copper. (See Reflector List, Page 5.)
APPROX. NET WT.	13 1/2 pounds.
APPROX. SHPG. WT.	33 pounds.

Type 1045-AGB — Individual Specifications

(Note General Specifications)

MOUNTING	Aluminum-alloy base cast integral with the projector body.
REFLECTOR	10-inch NONGLARE or CRYSTAL glass. (See Reflector List, Page 5.)
APPROX. NET WT.	15 pounds.
APPROX. SHPG. WT.	35 pounds.



ELECTRIC LIGHTING APPLIANCES AND ACCESSORIES

— FOR —
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 LOCOMOTIVE CRANES
 STEAM SHOVELS
 SHIPS, TUGS
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Export Department

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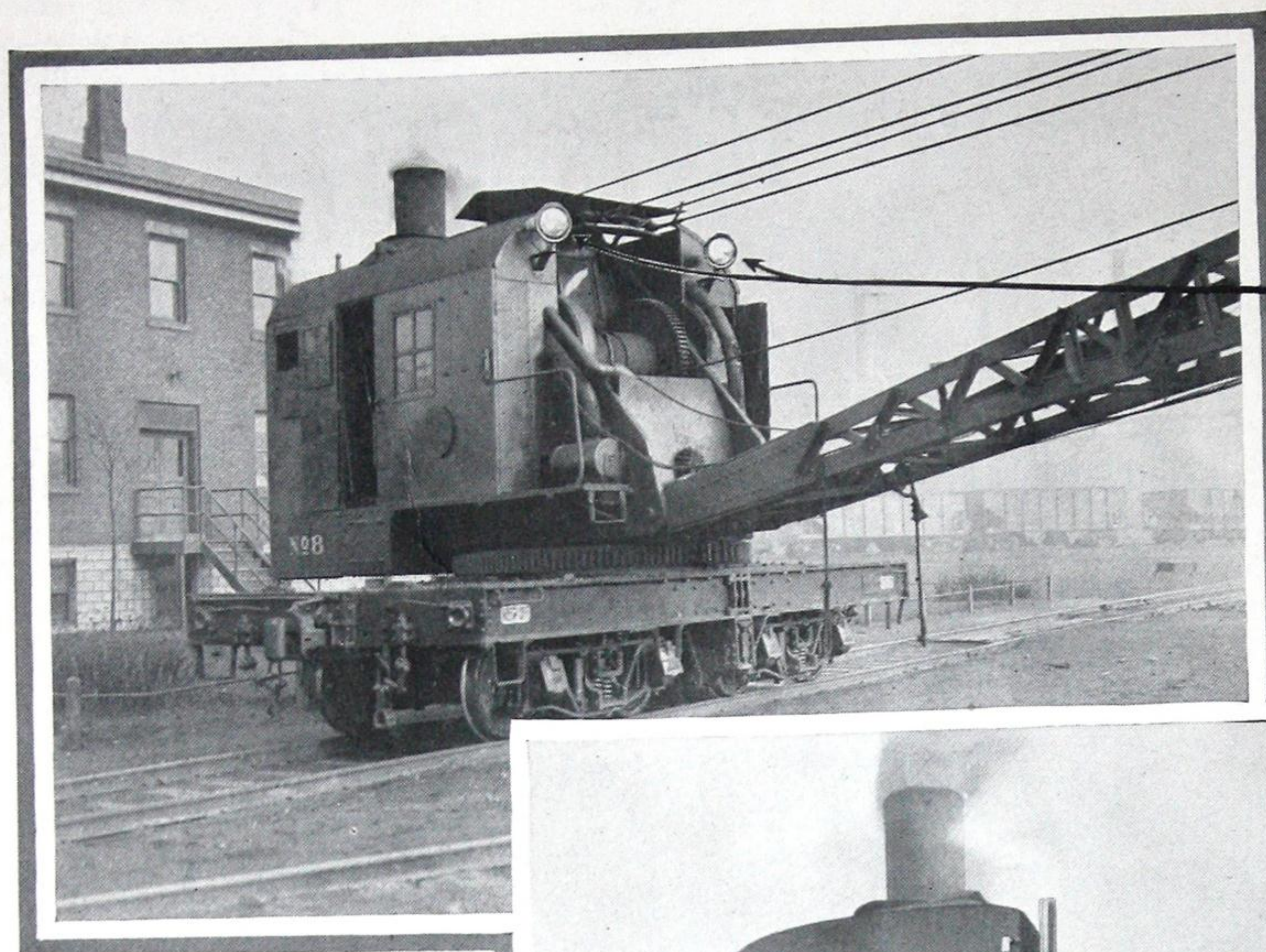
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